

CLIMATOLOGICAL DATA FOR OCTOBER, 1913.

DISTRICT NO. 6, MISSOURI VALLEY.

MONROSE W. HAYES, District Editor.

GENERAL SUMMARY.

The weather of October, 1913, was marked by a number of unusual features. In Montana and Wyoming the month was exceptionally cold and the snowfall was heavy; in North Dakota small lakes and streams were frozen over, an unusual occurrence for the season of the year; in most of South Dakota, Nebraska, Kansas, and Iowa, and the western part of Missouri, the lowest temperatures ever experienced in October were recorded. Other abnormal features were the deficiency in precipitation over nearly all the western portion of Kansas and in almost the entire State of Nebraska, and the unusually heavy snowfall in parts of southern Missouri; at one station the fall was 18 inches, which probably was the heaviest snow of record in Missouri during October.

In the district as a whole the weather was generally favorable for outdoor work, despite the marked extremes, and good progress was made with seasonable farm work, although in some parts of South Dakota thrashing was retarded. Throughout the mountain districts the conditions were favorable from a standpoint of forestry, on account of the precipitation; the woods have been kept moist and no fires have occurred.

Two storms of tornadic character occurred, accounts of which appear elsewhere in this report.

TEMPERATURE.

The mean temperature was below the normal in all parts of the district. The greatest deficiency was 4.0° in North Dakota and the least was 2.5° in Missouri, indicating that the departures from the normal were exceptionally uniform when the great extent of the district is considered. During the first 7 or 8 days the highest temperature occurred at almost all of the stations, and temperatures that were above the normal were general for the first half of the month. In the latter half the weather was cold, the coldest day being the 29th. In all the States of the district, except Missouri, zero temperatures occurred, and in a large part of what may be termed the central section of the drainage area the cold-weather record for October was broken. In Iowa the first zero temperatures of record for October occurred. The lowest temperature in the district was 6° below zero at South Pass City, Wyo., and the highest was 95° at Forestburg, S. Dak.

PRECIPITATION.

The precipitation was distributed uniformly as to the time of occurrence but unevenly as to the amounts. Over Wyoming, Montana, North Dakota, Iowa, and Missouri the amounts were above the normal; they were deficient in the remainder of the district. The greatest excess occurred in Missouri and the greatest deficiency in Nebraska. In a large portion of Kansas, Nebraska, and South Dakota practically no rain fell during the month. In Wyoming and the mountain portions of South Dakota, Montana, and Colorado practically all of the precipitation was in the form of snow, and at one station in Wyoming the fall amounted to 60 inches. The snowfall was also heavy over a large part of the Osage and Gasconade

watersheds in Missouri, but at the end of the month practically no snow was on the ground, except in the mountainous country. The greatest precipitation for the month was 9.12 inches at Eskridge, Kans., while at a number of stations in Nebraska there was none. The average precipitation for Nebraska was less than one-third of the normal, and at more than 80 of the reporting stations the total for the month was less than 0.50 inch; at only one station in the State was there a total fall of as much as 3 inches.

RIVERS.

Stream flow was very uniform throughout the month; there was just about enough precipitation to keep the rivers from falling, but not enough to cause rises of any consequence. The stages of the Missouri River were about normal.

THE TORNADO OF OCTOBER 9, 1913, IN NEBRASKA.

By G. A. LOVELAND, Section Director.

On October 9 a tornado moved from a point south of Lodi and west of Oconto in southwestern Custer County, Nebr., almost straight northeastward about 90 miles, and disappeared near Chambers, in southern Holt County, Nebr. It started soon after 5 p. m. and ended soon after 8 p. m., its rate of progress being about 30 miles an hour. Fortunately the path of the tornado did not pass through a village, although it narrowly missed several, but was in a sparsely settled region which had been given over mostly to large ranches. The path was practically continuous; many farm or ranch buildings were destroyed, and three persons were killed. The amount of property damage can not be ascertained accurately.

THE TORNADO OF OCTOBER 9, 1913, AT LEBANON, KANS.

By EARL V. BOWER, Cooperative Observer.

This storm was first seen 2 miles west of Lebanon at 4.02 p. m., October 9, 1913, and its peculiar appearance about 15 minutes before it broke gave people warning of its character. The funnel-shaped cloud ended in a long, slender pendant that reached the earth. Part of the time this pendant was straight and part of the time curved, and a cloud of dust rose a short distance on each side of where it touched the earth. The storm was accompanied by a greenish-colored sky, large hailstones, and severe lightning.

The tornado moved in a nearly straight course from the southwest to the northeast, destroying everything in its path, covering a distance of 15 miles in 18 minutes.

No people lost their lives, as they had ample time to reach safe places, but eight head of horses and hundreds of chickens were killed, and telephone and telegraph wires were torn down. The total damage to buildings, live stock, and implements amounted to about \$7,500. A force of 200 men worked in the devastated district the next day straightening out the wreckage.

There were many freaks connected with the storm, one of the most curious reported being on the Henry Churchill place, where an apple tree nearly a foot in diameter was torn up by the roots and twisted to pieces, while a beehive within 3 feet of the tree was not even turned over.

TABLE 1.—Climatological data for October, 1913. District No. 6, Missouri Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.						
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>Wyoming.</i>																						
Arapahoe.	Fremont.	5,200	3	49.6	+ 2.1	88	1	18	26	58	1.54	+ 0.99	1.17	2	14	9	8	nw.	Edw. L. Seymour.			
Basin.	Bighorn.	3,862	14	49.6	+ 2.1	88	1	18	26	58	1.54	+ 0.99	1.17	2	14	9	8	nw.	O. J. Robertson.			
Big Creek Station.	Carbon.	7,500	2	49.6	+ 2.1	88	1	18	26	58	1.54	+ 0.99	1.17	2	14	9	8	nw.	U. S. Forest Service.			
Boyd.	Weston.	6,192	—	33.9	—	99	24	—	42	2.01	—	—	0.57	11.6	14	13	8	10	nw.	Kirk Baker.		
Burns.	Laramie.	5,400	3	41.7	—	78	12	10	28	40	1.55	—	0.55	1.0	5	9	22	0	ne.	E. W. Bastian.		
Casper.	Natrona.	5,101	4	45.0	—	80	2	20	26	51	1.01	—	0.58	T.	7	13	11	7	nw.	Jos. A. Murray.		
Centennial.	Albany.	8,074	10	38.0	— 2.0	68	2	5	26	33	1.58	—	0.83	0.11	5.7	9	13	5	w.	Louis A. Gregory.		
Cheyenne.	Laramie.	6,088	42	41.5	— 3.8	72	2	14	26	33	1.43	+ 0.71	0.96	2.6	8	6	14	11	nw.	U. S. Weather Bureau.		
Chugwater.	Platte.	5,282	12	49.6	+ 2.1	88	1	18	26	58	1.54	+ 0.99	1.17	2	14	9	8	nw.	A. H. Woolever.			
Clark.	Park.	4,320	8	43.4	—	78	2	22	26	36	1.76	—	0.34	4.5	9	10	12	n.	Chas. A. C. Snow.			
Cody.	do.	5,000	6	41.8	—	79	2	15	25	42	0.86	—	0.30	4.0	7	16	4	15	w.	D. A. Tinkcom.		
Crandall Creek.	do.	—	34.4	—	71	1†	—	0	28	53	2.00	—	0.46	20.5	10	12	4	15	sw.	Ira H. Sparhawk.		
Dome Lake.	Sheridan.	8,321	5	29.4	—	63	2	—	1	26	33	4.10	—	0.80	41.0	12	10	7	14	sw.	Abe Mills.	
Douglas.	Converse.	4,783	4	42.6	—	79	6	6	26	49	1.23	—	0.39	1.5	5	11	5	15	nw.	Henry C. Miller.		
Eatons Ranch.	Fremont.	6,909	6	36.2	—	68	2	9	26	42	0.50	—	0.20	3.0	4	7	23	1	nw.	Dr. F. H. Welty.		
Echeta.	Sheridan.	4,600	8	44.6	—	81	2†	15	29	34	2.91	—	0.80	5.0	6	14	5	11	nw.	F. A. Eaton.		
Elk Mountain.	Campbell.	4,200	4	49.6	—	77	13	15	26	44	0.64	—	0.34	5.0	6	18	5	8	nw.	M. R. Hunter.		
Encampment.	Carbon.	—	—	—	—	—	—	—	—	—	—	—	—	24.8	9	54	14	8	sw.	Wm. Richardson.		
Ervay.	Fremont.	7,322	4	38.3	—	73	2	3†	27	45	2.25	—	1.25	6.0	9	54	14	8	sw.	U. S. Forest Service.		
Fort Laramie.	Natrona.	6,400	4	38.4	—	74	2	6	26	38	2.13	—	1.25	12.0	5	10	8	13	sw.	Frank Jameson.		
Foxpark.	Goshen.	4,270	35	44.8	- 1.8	83	2†	11	29	50	1.31	+ 0.68	0.78	T.	4	12	17	2	w.	John Hunton.		
Germania.	Albany.	9,015	3	33.3	—	64	2	0	40	1.00	—	0.60	4.0	3	8	6	1	sw.	U. S. Forest Service.			
Gillette.	Campbell.	4,546	7	49.6	—	77	13	15	26	44	0.64	—	0.34	5.0	6	18	5	8	nw.	M. H. Shields.		
Horse Creek.	Fremont.	8,000	1	30.1	—	64	8	2†	26	48	0.92	—	0.50	10.0	4	54	10 ^k	5 ^k	w.	U. S. Forest Service.		
Hunters Station.	Johnson.	8,030	7	32.8	—	69	2	2	26	45	1.42	—	0.34	17.0	9	16	2	13	ne.	Do.		
Hyattville.	Bighorn.	4,032	14	44.1	- 3.0	73	2	15	26	40	0.04	—	0.02	0.2	2	14	8	9	w.	Wm. Booth.		
Jireh.	Niobrara.	5,100	3	49.6	—	73	2	3	29	44	1.64	—	1.10	4.1	7	10	15	6	sw.	P. L. Ford.		
Kinnear.	Fremont.	41.7	—	76	2	8	26	48	0.67	—	0.65	3.2	2	12	11	8	w.	John C. Hays.				
Kirtley.	Niobrara.	9	41.4	—	79	12	10 ^a	25	49	1.69	—	0.83	0.5	6	16	7 ^a	7 ^a	sw.	D. M. ZumBrunnen.			
Kirwin.	Park.	9,187	4	28.2	—	60	2	—	4	28	37	2.14	—	0.45	21.4	13	16	11	4	sw.	C. L. Tewksbury.	
Knowles.	Crook.	4,500	4	49.6	—	78	2	14	26	45	1.86	—	0.38	1.43	6	14	4	13	nw.	Geo. A. Knowles.		
Lagrange.	Goshen.	4,720	3	45.0	—	82	2	9	26	43	0.53	—	0.16	2.0	6	11	12	8	w.	Owen Shupp.		
Lander.	Fremont.	5,372	21	40.4	- 1.7	76	2	2	28	49	1.71	+ 0.66	0.76	10.0	5	10	10	11	sw.	U. S. Weather Bureau.		
Laramie.	Albany.	7,188	22	41.0	- 0.8	73	2	3	29	44	1.64	—	1.10	4.1	7	10	15	6	sw.	University of Wyoming.		
Leo.	Carbon.	6,878	11	49.6	—	76	2	8	26	48	0.67	—	0.65	3.2	2	12	11	8	w.	C. A. Cowdin.		
Lolaboma Ranch.	Park.	7,052	9	34.1	- 4.0	67	18	10	31	45	0.45	—	0.13	0.25	10.0	2	15	9	7	e.	Mary E. Painter.	
Lovell.	Bighorn.	3,825	7	49.6	—	71	1	8	25	51	—	—	—	—	—	—	—	—	w.	R. Fred Harrison.		
Lusk.	do.	5,007	22	42.2	- 2.3	81	1	—	—	—	—	—	—	—	—	—	—	—	w.	D. E. Goddard.		
Manville.	do.	5,050	3	49.6	—	71	1	—	—	—	—	—	—	—	—	—	—	—	w.	L. C. Stoddard.		
Moorecroft.	Crook.	4,311	9	41.3	—	80	1	10	29	35	0.82	—	0.35	5.0	7	7	7	8	n.	C. T. McCampbell.		
Moore.	Albany.	6,000	12	42.0	- 4.2	77	2	14	26	45	1.86	+ 0.87	1.15	2.4	9	5	14	12	w.	Edwin Moore.		
Newcastle.	Weston.	4,319	6	42.2	—	78	2	15	29	36	1.85	—	0.92	2.5	7	7	15	9	w.	Dr. S. W. Johnson.		
Pathfinder.	Natrona.	5,735	7	42.2	—	70	2	11	26	34	1.43	—	0.70	3.0	6	9	21	1	sw.	U. S. Reclamation Service.		
Pinebluff.	Laramie.	5,038	10	43.4	- 4.2	80 ^b	3†	12 ^b	29	65 ^b	1.54	+ 0.31	0.60	0.25	4.0	5	8	16	7	sw.	C. L. Beatty.	
Pine Ridge.	Crook.	—	—	—	—	—	—	—	—	—	—	—	0.25	4.0	5	8	16	7	sw.	J. E. S. Altafier.		
Powell.	Park.	4,376	5	41.2	—	77	2	15	26	44	0.52	—	0.21	2.0	5	11	6	14	sw.	U. S. Reclamation Service.		
Rawlins.	Carbon.	6,748	11	39.4	- 3.9	72	2	8	26	39	1.12	+ 0.13	0.48	5.5	8	11	9	9	w.	E. J. Ehrenfeld.		
Rock River.	Albany.	6,900	39.8	74	2	1	26	44	1.31	—	0.58	2.5	7	24	4	3	3	3	w.	Rock Creek Conservation Co.		
Rockypoint.	Crook.	—	—	—	—	—	—	—	—	—	—	—	1.41	—	0.58	6.5	7	11	6	nw.	P. Woxen.	
Saratoga.	Carbon.	6,785	15	40.8	- 2.3	75 ^a	1†	7 ^a	27	55 ^a	1.77	+ 0.61	1.50	3.0	4	12	6	16 ^b	w.	R. G. Hamilton.		
Seven-mile Creek.	do.	—	—	—	—	—	—	—	—	—	—	—	1.80	—	0.59	18.0	7	16	4	11	sw.	U. S. Forest Service.
Sheridan.	Sheridan.	3,790	18	40.6	- 3.6	79	2	5	26	46	2.05	+ 1.21	0.82	4.7	9	6	8	17	nw.	U. S. Weather Bureau.		
Shoshone Dam.	Park.	5,335	7	43.8	—	77	2	21	6†	38	1.44	—	0.32	8.7	7	15	6	10	sw.	U. S. Reclamation Service.		
South Pass City.	Fremont.	7,796	11	32.4	- 4.6	66	2	—	6	26	44	0.35	- 0.31	0.19	6.0	8	13	5	13	sw.	John Sherlock.	
Sundance.	Crook.	4,750	1	49.6	—	71	2	19	26	46	1.36	+ 0.10	0.86	4.1	9	19	5	7	w.	A. L. Duhig.		
Thermopolis.	Hot Springs.	4,530	16	43.2	- 3.3	81	2	19	26	46	2.05	+ 1.21	0.82	4.7	9	6	8	17	nw.	W. H. Coleman.		
Ulm.	Sheridan.	4,448	1	40.9	—	80	13	13	29	44	1.14	—	0.40	T.	5	5	17	9	w.	Ray C. Thompson.		
Upton.	Weston.	—	—	—	—	—	—	—	—	—	—	—	0.50	1.0	6	6	16	9	sw.	O. A. Roode.		
Vrorna.	Sheridan.	4,300	4	43.5	—	80	3	3	26	62	1.39	—	1.05	3.0	4	9	13	9	w.	C. A. Rockwell.		
Wheatland.	Platte.	4,700	2	43.5	—	80	3	3	26	62	1.39	—	1.05	3.0	4	9	13	9	w.	Ira G. Wiant.		
Wlays Ranch.	Carbon.	7,400	3	49.6	—	73	2	—	26	45	1.56	—	0.67	0.87	T.	5	17	6	8	nw.	U. S. Forest Service.	
Woodrock.	Sheridan.	8,800	2	49.6	—	76	2	—	26	45	1.56	—	0.67	0.87	20.0	9	10	5	16	sw.	Prof. B. C. Buffum.	
Worland.	Washakie.	4,033	6	42.6	—	76	2†	12	26	45	0.83	—	0.60	T.	5	17	6	8	nw.	U. S. Reclamation Service.		
Wyncote.	Goshen.	4,186	6	44.6	—	81	13	10	29	48 ^a	1.68	+ 0.44	0.56	11.5	13	7	11	13	s.	U. S. Weather Bureau.		
Yellowstone Park.	Yellowstone Park.	6,200	23	35.6	- 0.0	65	1	10	28	37	1.6											

TABLE 1.—Climatological data for October, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direc- tion.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unadjusted.								
Montana—Continued.																						
Busted...	Stillwater...	4,050	5	42.3	-1.2	91	22	10	25	51	2.88	-0.06	1.15	19.0	8	15	7	9	w.	T. H. Busteed.		
Canyon Ferry...	Lewis and Clark...	3,670	14	42.2	-1.2	79	2	18	17	41	0.66	-0.06	0.17	7	10	13	8	nw.	W. L. Kirk.			
Cascade...	Cascade...	3,361	8	43.6	-	81	2	15	6	43	3.39	-	1.00	16.0	5	6	18	7	sw.	Dr. E. E. James.		
Chester...	Hill...	3,132	9	43.0	-	78	1	11	27	50	0.10	-	0.10	T.	1	18	4	9	nw.	C. F. Baker.		
Chinook...	Blaine...	2,502	14	41.5	-2.2	84	2	10	28	44	0.76	+0.19	0.35	T.	3	23	8	8	w.	T. O'Hanlon Co.		
Clyde park...	Park...	5,027	1	42.0	-	80	2	11	28	56	1.37	-	0.30	14.0	9	8	7	16	nw.	J. H. Eyman.		
Conrad...	Teton...	3,501	2	41.8	-	80	17	11	17	46	0.55	-	0.50	8.0	10	4	9	6	sw.	Robert J. Kelly.		
Copper...	Meagher...	5,680	8	-	-	-	-	-	-	-	1.44	-	0.40	15.0	10	5	11	11	w.	Orville Harris.		
Crow Agency...	Bighorn...	3,041	30	45.2	-1.8	81	2	18	26	43	1.68	+0.49	0.53	T.	7	11	13	7	nw.	Harry Throssell.		
Culbertson...	Sheridan...	1,927	10	38.0	-	80	17	5	28	45	0.45	-	0.60	11.2	5	13	8	10	w.	G. H. Coulter.		
Cut Bank...	Teton...	3,745	14	39.2	-1.0	79	1	14	7	50	1.15	+0.28	0.63	1.5	4	28	11b	10b	w.	Chas. N. Thomas.		
Denton...	Fergus...	3,500	4	41.9	-	80	2	17	26	39	1.46	-	0.31	10.0	5	16	9	8	nw.	P. J. Griesenauer.		
Dillon...	Beaverhead...	5,143	15	46.8	+1.7	74	1	27	97	43	1.77	+0.81	1.15	16.5	5	14	5	12	w.	Prof. J. E. Monroe.		
Dunkirk...	Hill...	3,450	1	-	-	-	-	-	-	-	0.17	-	0.06	T.	4	24	1	6	w.	B. C. Protzman.		
Ekalaka...	Custer...	12	41.2	-3.5	79	2	6	28	37	0.82	+0.05	-	0.30	T.	6	11	6	14	nw.	William Freese.		
Fallon...	do...	2,208	8	41.7	-	82	2	9	28	43	1.54	-	0.40	T.	5	13	10	8	w.	Mrs. A. C. Gifford.		
Findon...	Meagher...	6,000	1	37.4	-	74	2	13	28	34	2.15	-	0.59	43.5	14	9	8	14	w.	Lewis Cameron, sr.		
Flathead Creek...	Gallatin...	6,000	2	37.2	-	70	2	6	28	39	1.41	-	0.40	-	11	3	3	25	nw.	Alta Williams.		
Flatwillow...	Fergus...	42.2	-	86	2	18	27	45	1.44	-	0.54	9.0	-	7	13	0	18	w.	W. Johnson.			
Forsyth...	Rosebud...	2,514	6	44.4	-	83	2	18	19	54	1.68	-	0.0	4	14	5	12	w.	H. Mackenzie.			
Fort Shaw...	Cascade...	3,500	24	41.4	-2.8	79	2	13	6	46	2.48	+1.88	1.05	13.7	7	8	8	15	nw.	U. S. Reclamation Service.		
Foster...	Bighorn...	2,800	3	43.6	-	85	2	17	26	51	1.91	-	0.80	T.	7	13b	7b	9b	w.	E. K. Bowman.		
Garneill...	Fergus...	5,500	4	35.7	-	71	2	9	25	40	1.57	-	-	13.6	10	3	8	20	w.	Thos. E. Scally.		
Geyser...	Cascade...	4,147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	I. G. Finfrock.		
Glasgow...	Valley...	2,092	16	38.4	-4.0	85	2	5	27	47	2.23	+1.53	1.05	8.3	4	11	8	12	ne.	C. D. Bauer.		
Glendive...	Dawson...	2,069	22	40.8	-5.0	80	2	10	28	40	1.85	+0.95	0.50	T.	8	10	13	11	n.	E. C. Leonard.		
Goldbutte...	Hill...	3,500	5	39.1	-	78	17	14	46	36	0.36	-	0.36	3.0	1	9	13	9	w.	Joseph Berthelote.		
Great Graham...	Custer...	7	45.2	-	81	2	17	31	34b	2.02	-	0.77	2.0	4	6b	5a	6b	6b	nw.	J. S. Rue.		
Great Falls...	Cascade...	3,350	21	43.6	-3.2	79	2	21	67	37	2.65	+2.00	0.71	3.1	14	11	6	12	w.	S. H. Baumann.		
Harlowton...	Meagher...	4,160	5	41.4	-	89	1	11	75	55	1.36	-	0.76	19.2	4	7	9	7	w.	Joseph Muir.		
Havre...	Hill...	2,505	33	40.8	-2.8	83	2	12	31	42	0.88	+0.38	0.54	1.6	3	8	10	13	sw.	U. S. Weather Bureau.		
Hebgen Dam...	Gallatin...	6,700	7	27.8	-	63	2	2	17	41	1.89	-	0.51	19.0	6	11	8	12	s.	T. L. Carson.		
Helena...	Lewis and Clark...	4,110	33	41.8	-2.2	79	2	20	28	35	1.39	+0.57	0.43	13.6	6	10	15	15	sw.	U. S. Weather Bureau.		
Highwood...	Chouteau...	4,300	7	-	-	-	-	-	-	-	3.41	-	1.10	18.5	8	8	7	16	w.	W. S. McCord.		
Huntley...	Yellowstone...	3,037	7	43.3	-	82	2	19	26	40	2.60	-	1.29	2.0	7	17	9	5	w.	U. S. Reclamation Service.		
Knobles Ranch...	Hill...	2	-	-	-	-	-	-	-	-	1.26	-	14.8	4	12	7	12	w.	F. H. Knobles.			
Lewistown...	Fergus...	4,006	15	38.4	-4.9	83	2	11	17	48	1.82	+0.57	0.72	8.5	9	13	1	17	nw.	W. W. Watson.		
Lonetree...	do...	3,280	7	45.7	-	83	2	23	25	44	2.65	-	1.10	7.5	7	16	1	4	w.	E. Wilson.		
Lothair...	Hill...	3,301	1	38.9	-	78	2	10	31	46	0.65	-	0.25	0	3	22	2	7	w.	James H. Whiteley.		
Lytle...	Chouteau...	1	-	39.8	-	80	2	17	7	38	1.96	-	0.82	7.5	6	18	7	6	sw.	J. F. Fait.		
Malta...	Valley...	2,250	6	39.8	-	84	2	12	31	49	1.69	-	0.51	2.0	7	6	10	15	ne.	U. S. Reclamation Service.		
Medicine Lake...	Sheridan...	1,969	2	36.2	-	81	2	1	28	48	1.66	-	1.00	12.0	4	17*	8*	5	sw.	J. S. Collier.		
Melstone...	Musselshell...	2,903	1	44.4	-	84	2	20	28	42	2.48	-	0.71	2.0	6	17	6	8	ne.	C. W. Greening.		
Mildred...	Custer...	2,364	4	-	-	-	-	-	-	-	-	-	0.43	T.	6	12	12	7	nw.	Leon R. Clark.		
Miles City...	do...	2,371	21	44.3	-2.2	83	2	14	28	44	1.83	+1.07	0.98	T.	9	14	8	12	nw.	U. S. Weather Bureau.		
Norris...	Madison...	4,845	6	42.9	-	77	2	20	30	40	3.60	-	3.38	13.0	6	13	6	12	s.	Montana Power Co.		
Pinegrove...	Musselshell...	1	-	36.2	-	70	2	16	28	30	3.04	-	1.00	34.5	8	7	15	9	w.	G. W. White.		
Pipestone Pass...	Jefferson...	7,000	4	-	-	-	-	-	-	-	-	-	0.21	4.0	4	9	10	12	w.	Mrs. T. Kiermeyer.		
Plevna...	Custer...	3,757	1	40.6	-	80	2	5	28	39	0.79	-	0.23	T.	7	13	10	8	w.	C. C. Conser.		
Poplar...	Sheridan...	2,020	27	41.9	-1.9	91	1	0	28	53	1.62	+0.94	0.65	6.0	15	8	5	16	nw.	H. M. Cosier.		
Red Lodge...	Carbon...	5,548	13	35.0	-7.7	71	2	4	26	41	3.91	+2.37	1.53	29.3	12	10	5	16	nw.	I. A. Draper.		
Renova...	Jefferson...	4,360	14	42.2	-1.7	79	2	13	26	45	0.60	-0.27	0.51	7.0	3	10	8	13	sw.	F. B. Elmer.		
Ryegate...	Musselshell...	3,640	3	41.7	-	85	2	14	26	52	2.13	-	0.65	6.0	6	18	1	12	w.	H. W. Scherfenberg.		
Savage...	Dawson...	1,985	7	41.2	-	82	2	6	28	43	1.27	-	0.41	T.	6	12	12	7	w.	U. S. Reclamation Service.		
Shelby...	Teton...	3,176	1	40.6	-	80	1	13	31	48	0.32	-	0.21	4.0	4	9	10	12	w.	Olaif C. Fjeld.		
Sidney...	Dawson...	2	-	39.8	-	80	2	7	28	42	1.89	-	0.62	2.0	6	10	6	15	nw.	P. F. Blake.		
Springbrook...	do...	11	-	39.9	-4.2	82	2	1	28	49	2.75	+1.82	1.12	1.5	5	9	11	18	w.	Mrs. H. L. Miller.		
Sunlit Farm...	Blaine...	3,170	1	37.2	-	79	2	8	28	42	0.47	-	0.14	3.2	5	8	7	18	w.	C. R. Noyes.		
Sun River Canyon...	Teton...	4,650	1	44.0	-	77	1	24	15	48	1.52	-	0.67	12.0	4	15	8	8	sw.	U. S. Reclamation Service.		
Three Forks...	Gallatin...	4,066	2	41.2	-	81	2	16	17	51	1.98	-	1.00	6.0	5	9	9	17	w.	C. E. Adams.		
Utica...	Fergus...	5,000	18	39.8	-3.9	79	2	10	25	35	2.59	+1.40	-	19.2	8	19	10	2	w.	P. W. Korell.		
Valentine...	do...	2,800	6	41.8	-	86	2	17	26	44	1.61	-	0.41	2.5	7	13	10	8	w.	B. M. Bean.		
Valier...	Teton...	1	41.3	-	82	19	15	7	50	0.35	-	0.18	6.1	3	14	6	11	w.	Ford, Bacon Davis.			
Wall Rock Mountain...	Broadwater...	5,600	1	44.9	-	81																

TABLE I.—Climatological data for October, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmailed.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
North Dakota—Contd.																					
Mott.	Hettinger.	2,424	6	39.4	-3.5	85	1	5	29	48	1.09	+ 1.08	0.47	0	4	8	13	10	nw.	O. H. Opland.	
Napoleom.	Logan.	1,985	21	38.4	-3.5	79	2	0	29	50	1.96	+ 1.08	0.70	1.0	6	11	7	13	w.	C. J. Hoof.	
New England.	Hettinger.	2,400	19	43.4	-0.5	80	12	7	28	44	1.03	+ 0.39	0.57	0.2	6	12	6	13	nw.	J. M. Connolly.	
New Rockford.	Eddy.	1,531	20	40.0	-	76	2	4	29	43	1.77	-	0.92	0.5	4	13	13	5	nw.	J. V. M. Sundberg.	
New Salem.	Morton.	2,163	8	41.8	-	85	2	4	29	43	1.09	-	0.52	0	6	9	10	12	nw.	J. Christiansen.	
Orange.	Adams.	-	4	40.2	-	83	2	5	29	47	1.32	-	0.59	0	3	14	10	7	nw.	J. E. Goforth.	
Ranger.	Billings.	-	-	-	-	-	-	-	-	-	-	-	0.35	0	6	19	1	11	nw.	R. E. Sheriff.	
Ronda.	Mercer.	-	-	39.8	-	82	2	4	29	46	0.78	-	0.45	0	4	16	11	14	nw.	H. A. Crandall.	
Steele.	Kidder.	1,857	16	42.5	-1.0	82	2	11	28	42	2.13	+ 1.46	0.97	T.	3	20	10	1	w.	H. S. Wood.	
Turtle Lake.	McLean.	-	1	39.4	-	83	2	2	29	47	1.84	-	0.70	T.	7	13	4	14	nw.	E. G. Ranum.	
Washburn.	do.	1,734	15	40.6	-3.9	78	13	8	29	40	0.88	-0.13	0.45	T.	4	9	20	2	w.	W. R. Peterson.	
Williston.	Williams.	1,875	34	39.0	-3.9	82	2	6	28	42	0.89	+ 0.12	0.35	1.4	6	7	9	15	nw.	U. S. Weather Bureau.	
South Dakota.																					
Aberdeen.	Brown.	1,300	23	41.8	-4.1	85 ^a	2	5	29	49 ^a	3.95	+ 2.25	3.10	..	5	15	8	8	n.	D. G. Gallett.	
Academy.	Charles Mix.	14	48.9	-2.8	91	3	6	29	41	0.47	-1.11	0.20	0.5	6	14	13	4	nw.	I. T. Lothrop.		
Alexandria.	Hanson.	1,352	25	49.6	-0.3	90	4	1	28 ^b	50	0.93	-1.02	0.88	1.0	2	17	5	9	nw.	C. H. Stillwell.	
Ardmore.	Fall River.	3,557	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F. L. Kelsay.		
Armour.	Douglas.	1,521	16	43.8 ^c	-7.6	91 ^c	3	0 ^c	29	54 ^c	0.30	-1.99	0.10	1.0	2	-	-	-	-	T. J. Markey.	
Bellefourche.	Butte.	3,000	5	44.6	-	82	13	15	29 ^b	42	1.32	-	0.63	0	4	7	16	8	nw.	U. S. Reclamation Service.	
Blunt.	Hughes.	1,621	-	-	-	-	-	-	-	-	-	-	0.48	0	1	10	13	8	nw.	James A. Howard.	
Britton.	Marshall.	1,354	40.0	-	80	2	3	29	45	2.28	-	1.40	1.0	6	18	7	6	s.	W. S. Given.		
Brookings.	Brookings.	1,636	24	43.6	-2.8	89	3	0	30	44	1.55	+ 0.11	1.30	1.5	5	15	7	9	nw.	Experiment Station.	
Bryant.	Hamlin.	1,846	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E. D. Landon.		
Camp Crook.	Harding.	3,000	20	41.2	-4.6	81	2	10	28	44	1.18	+ 0.57	0.49	T.	7	10	10	11	nw.	U. S. Forest Service.	
Canton.	Lincoln.	1,248	18	44.8	-5.2	86	3	0	30	54	1.41	-0.51	1.03	1.5	3	19	6	6	se.	John H. Holsey.	
Castlewood.	Hamlin.	1,685	8	42.7	-	89	3	2	29	47	1.29	-	0.50	T.	8	5	5	18	nw.	M. N. Bradley.	
Centerville.	Turner.	1,239	18	45.9	-	88	3	4	29	45	1.26	-0.71	0.69	2.0	7	9	14	8	nw.	Frank Williams.	
Chamberlain.	Brule.	1,363	14	45.6 ^c	-6.3	90 ^c	6 ^c	6 ^c	29	38 ^c	T.	-1.31	T.	0	13	2	16	nw.	W. B. Van Horn.		
Clark.	Clark.	1,779	21	43.6	-4.1	81	3	3	29	45	4.14	+ 2.58	2.32	4.2	6	14	8	9	nw.	O. H. La Craft.	
Cottonwood.	Stanley.	2,414	5	44.0	-	85	2	2	29	51	0.76	-	0.46	T.	5	8	12	11	nw.	Experiment Station.	
Custer.	Custer.	5,316	1	-	-	-	-	-	-	-	-	-	1.97	-	0.95	4.7	6	4	nw.	R. P. Imes.	
Daviston.	Perkins.	-	3	40.4	-	80	2	7	29	40	1.20	-	0.57	T.	5	9	12	12	nw.	Dyson Byers.	
Deadwood.	Lawrence.	4,535	4	40.1	-	78	2	9	29	38	2.25	-	1.05	5.5	4	14	8	9	nw.	R. E. Grimshaw.	
De Smet.	Pennington.	6,000	4	-	-	-	-	-	-	-	-	-	1.35	11.5	13	15	5	nw.	Frank E. Miller.		
Dowling.	Stanley.	1,726	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M. P. Dowling.		
Dumont.	Lawrence.	6,195	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A. B. Wood.		
Eagle Butte.	Dewey.	2,415	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A. F. Dankenbring.		
Eales.	Potter.	-	2	-	-	-	-	-	-	-	-	-	1.09	-	0.78	0.3	8	9	14	8	nw.
Elk Mountain.	Custer.	4,700	4	-	-	-	-	-	-	-	-	-	1.36	-	0.86	3.6	8	9	10	12	nw.
Ellingson.	Perkins.	1	41.0	-	81 ^a	2	8 ^a	28	39 ^a	1.08	-	0.53	T.	5	7	15	9	9	nw.	James E. Blaine.	
Eureka.	McPherson.	1,884	4	41.4	-	83	3	0	29	51	1.52	-	1.23	T.	5	11	14	6	nw.	Carl G. Moen.	
Fairfax.	Gregory.	9	48.1	-	90	3	3	29	44	0.35	-	0.20	1.0	2	20	10	1	nw.	Experiment Station.		
Faith.	Meade.	2,560	42.1	-	81 ^c	2	7	29	37	1.48	-	0.85	T.	4	2	17	12	nw.	U. G. Stevenson.		
Faulkton.	Faulk.	1,595	18	44.0	-3.1	85	3	4	29	41	2.02	+ 0.02	1.48	T.	6	20	4	7	nw.	Robert R. Saul.	
Flandreau.	Moody.	1,565	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Miss Belle Talcott.		
Forestburg.	Sanborn.	1,231	21	46.0	-2.1	95	3	1	29	51	1.73	+ 0.16	0.90	-	3	22	7	2	nw.	D. R. McLean.	
Fort Meade.	Meade.	3,624	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S. S. Judy.		
Goldfield.	Stanley.	3,000	45.8	-	85	2	9	29	51	1.71	-	1.02	T.	8	11	15	5	nw.	Post Hospital.		
Greenmont.	Lawrence.	6,430	4	44.3	-	83	3	8	29	48	1.23	-	0.48	8.0	8	10	11	10	nw.	A. M. Alexander.	
Greenwood.	Charles Mix.	19	49.8	-2.6	89	3	0	29	48	1.23	-	0.69	1.03	1.5	2	13	16	2	nw.	H. C. Hoffbauer.	
Hardingrove.	Stanley.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C. W. Williamson.		
Hardy Ranger Station.	Lawrence.	6,600	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Henry L. Theilmann.		
Harveys Ranch.	do.	6,282	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Rufus J. Pilcher.		
Hermosa.	Custer.	3,278	7	43.9 ^c	-	83 ^c	27	11 ^c	28	51 ^c	1.24	-	0.56	T.	5	13	12	6	nw.	Jerome Harvey.	
Hightmore.	Hyde.	1,890	20	44.0	-3.3	85	3	0	29	45	0.61	-0.41	0.32	0.2	5	7	7	17	nw.	S. M. Booth.	
Hopewell.	Stanley.	3	45.0	-	88	2	9	29	43	0.84	-	0.42	T.	5	9	14	8	nw.	Experiment Station.		
Hot Springs.	Fall River.	3,443	45.6	-	80	27	14	29	37	2.60	-	1.60	T.	5	15	8	8	nw.	E. Myers.		
Howard.	Miner.	1,564	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	J. H. Cox.		
Howell.	Hand.	11	43.8	-3.7	91	3	1	29	57	0.47	-0.63	0.25	0.3	5	13	13	5	nw.	M. A. Shuster, jr.		
Huron.	Beadle.	1,306	31	44.1	-0.6	90	3	3	29	43	1.98	+ 0.84	1.00	0.3	5	8	11	12	nw.	H. J. Dailey.	
Ipwich.	Edmunds.	1,530	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Glen W. Shaw.		
Kadoka.	Stanley.	2,467	4	45.6	-	84	2	5	29	45	0.48	-	0.28	T.	4	4	9	18	nw.	R. C. Van Horn.	
Kennebec.	Lyman.	1,689	20	45.4	-4.0	89 ^b	13	0 ^b	29	49 ^b	0.28	-	0.73	T.	2	17	8	6	nw.	G. D. Rose.	
Kimball.	Brule.	27	47.2	-1.6	88	3	2	29	43	0.17	-	0.95	0.16	0	2	22	4	5	nw.	E. L. Ebbert.	
Le Delle.	Splink.	1,400	16	43.2	-4.7	90	3	-	29	38	3.71	+ 1.69	1.65	2.0	6	13	5	13	nw.	Herbert Fuller.	
Lead.	Lawrence.	5,200	40.3	-	76	2	9	29	33	2.22	-	0.95	9.0	11	-	-	-	-	M. H. Dains.		
Marion.	Turner.	1,447	12	46.7	-4.5	88	3	0	29	44	0.21	-	1.50	0.5	3	9	15	7	nw.	J. W. Kozel.	
Marston.	Sully.	5	42.2	-	82	3	2	29	44	0.39	-	0.19	T.	3	7	7	17	nw.	Hillard Wybenga.		
Meadow.	Perkins.	40.6	-	80	2	4	29	38	0.88	-	0.50	T.	2	13	10	9	10	nw.	Frank A. Howe.		
Mellette.	Spink.</																				

TABLE 1.—Climatological data for October, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.			Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.						
South Dakota—Contd.																				
Sisseton.	Roberts.	1,202	7	24	40.6	80	2	7	28	42	0.87	0.79	T.	2	11	9	11	nw.		
Sorium.	Perkins.											0.79	2.0	4	8	11	12	nw.		
Spearfish.	Lawrence.	3,647	24	43.9	-5.2	80	2	19	29	36	1.79	+ 0.48	T.	2	12	11	8	nw.		
Stephan.	Hyde.	1,940	9	44.2	-4.3	86	2	1	29	41	0.06	-1.09	0.03	0	13	7	11	Rev. A. Mattingly.		
Tams.	Meade.											0.80	0	2	13	7	11	E. J. Lehman.		
Timber Lake.	Dewey.	2,163	1	43.8		86	2	4	29	51	1.36	-0.87	1.03	T.	4	4	22	nw.		
Tyndall.	Bonhomme.	1,418	16	47.6	-3.4	90	3	4	29	53	1.43	-0.87	0.77	2.0	8	19	6	nw.		
Vale.	Butte.	2,765	5	45.8 ^b	-3.9	83 ^a	2			48 ^c	2.37		1.49	T.	8	19	1	10	U. S. Reclamation Service.	
Vermillion.	Clay.	1,222	12	45.4	-3.9	87	3	6	29	45	3.14	+ 0.76	3.00	1.0	4	14	8	11	Prof. E. C. Perisho.	
Waters Ranch.	Lawrence.	4,000	3								1.68		0.61	3.3	7	7	5	nw.		
Watertown.	Codington.	1,735	19	40.7	-4.9	88	3	3	29	55	1.13	-0.56	0.48	1.0	6	8	11	sw.		
Wentworth.	Lake.	20	43.8	-4.1	88	3	2	29	37	1.31	-0.55	0.72	0.5	6	17	9	5	R. C. Zimmerman.		
White Lake.	Aurora.	1,646	4															Mrs. G. A. Rogers.		
Winner.	Tripp.	2,000	1	45.0 ^e		91 ^a	3	4 ^c	28	53 ^c	0.35		0.28	T.	3	16	11	4	J. W. Barnum.	
Wood.	Mallett.			49.0 ^e	-3.3	89	13		42 ^c	0.48		0.20	T.	4	13 ^a	3 ^a	11	Fred E. Kirch.		
Yankton.		1,234	39	47.2		86	3	8	29	40	1.52	-0.05	0.63	2.0	7	6	14	U. S. Weather Bureau.		
Minnesota.																				
Pipestone.	Pipestone.	1,710	12	46.0	-2.2	88	3	4	30	41	2.40	+ 0.39	1.86	1.0	6	11	6	11	A. L. Doan.	
Colorado.																				
Arriba.	Lincoln.	5,243	7	45.5		83	3	7	29	45	0.21		0.09	1.8	3	21	5	5	C. A. Creel.	
Auldhurst.	Teller.	8,500	3								1.20		0.32	13.9	9	13	12	6	se.	
Bennett (near).	Arapahoe.	5,484	5								1.49		0.61	4.5	3	22	6	3	J. F. Egelhoff.	
Boulder.	Boulder.	5,347	17	48.1	-4.1	76	13	15	29	38	2.24	+ 0.29	0.54	9.0	8	1	28	2	nw.	
Burlington.	Kit Carson.	4,160	10	48.0	-2.2	84	3 ^c	11	29	42	0.08	-1.16	0.06	T.	2	16	12	3	W. P. Davis.	
Cassells.	Park.	8,445	3								2.63		1.70	5.1	6	15	7	9	Harrer M. Cassell.	
Castle Rock.	Douglas.	6,220	21	43.8	-3.5	75	24	5	26	61	1.32	+ 0.08	0.41	7.5	7	14	8	8	Thos. P. Vaughan.	
Cheeseman.	Jefferson.	6,890	10	45.2	-2.6	76	12	10	26	45	1.27	+ 0.22	0.52	5.9	6	12	11	8	Denver Union Water Co.	
Cheyenne Wells.	Cheyenne.	4,279	21	49.3	-2.9	88	3	12	29	46	0.54	-0.28	0.49	T.	2	21	8	2	J. W. Adams.	
Denver.	Denver.	5,272	41	46.4	-4.6	71	13	13	29	37	1.17	+ 0.21	0.39	8.6	11	7	19	5	sw.	
Edgewater.	Jefferson.	5,450	5	44.5		77	13	5	29	43	1.40		0.34	8.2	8	18	10	3	N. P. Levin, M. D.	
Estes Pk. Fish Hatch.	Larimer.	8,000	4								1.43		0.50	3.0	6	3	8	20	w.	
Fort Collins.	do.	4,985	34	44.6	-3.2	77	13	13	29	43	1.00	-0.02	0.57	T.	7	30	9 ^a	4 ^a	Colorado Agricultural College	
Fort Lupton (near).	Weld.	4,907	3								0.03		0.24	2.0	7	11	16	4	C. B. Benedict.	
Fort Morgan.	Morgan.	4,319	15															Great Western Sugar Co.		
Frances.	Boulder.	9,300	8	35.9		64	2	4	26	36	2.30		0.56	27.5	18	7	21	3	w.	
Frys Ranch.	Larimer.	7,500	3	39.0		72	12	6	29	43	1.46		0.45	6.0	9	14	8	9	Norman W. Fry.	
Georgetown.	Clear Creek.	8,550	11								0.98		0	0.27	18.0	6	8	16	7	H. L. Corbett.
Greeley.	Weld.	4,649	22	47.8	-4.3	81	15	16	28	49	0.20	-0.66	0.15	0	2	15	9	7	Kenneth Shaw.	
Grover (near).	do.	5,076	9	42.5		77	3 ^c	7	26	45	0.38		0.20	T.	2	14	8	9	D. M. Porter.	
Hartsell.	Park.	8,892	4								0.27		0.12	4.0	4	18	6	7	Emily Kleinknecht	
Hawthorne.	Boulder.	6,000	4								3.20		0.88	14.0	7	21	7	3	B. E. Chesebro.	
Holyoke (near).	Phillips.	3,745	17															A. C. Canble.		
Idaho Springs.	Clear Creek.	7,543	13	41.5	-3.0	72 ^a	12	6 ^a	20	44 ^a	1.49	+ 0.23	0.75	13.5	7	5	26	0	J. J. Willis.	
Julesburg.	Sedgwick.	3,405									0.10		0.10	0	1	15	13	3	Great Western Sugar Co.	
Kersley.	Weld.	4,571									1.61	+ 0.62	0.63	1.0	6				Do.	
Le Roy (near).	Larimer.	5,053	22								1.17	+ 0.14	0.62	3.5	4	9	15	7	P. A. Taft.	
Longmont.	Boulder.	4,950	12	46.7	-1.0	79	13	4	28	43	0.75	-0.58	0.32	0.8	8	11	13	7	Charles Green.	
Longs Peak (near).	Larimer.	8,600	18	30.0	-3.2	67	2	1	26	41	1.45	-0.14	0.60	15.0	9	17	4	10	Great Western Sugar Co.	
Merino.	Logan.										1.18		0.70	T.	2	21	7	3	Enos A. Mills.	
Moraine.	Larimer.	7,775	23	38.6	-4.0	69	2	7	26	40	0.38	-0.88	0.38	0	1	14	0	17	Great Western Sugar Co.	
Platte Canon.	Jefferson.	5,492	14								0.10		0.10	0	1	15	13	3	Denver Union Water Co.	
St. Cloud.	Larimer.	7,750	10								0.87		0.35	9.2	6	13	7	11	Miss E. S. Cornelison.	
Silver Lake.	Sedgwick.	3,559	5															Edwin Lewis, M. D.		
Spicer (near).	Boulder.	10,500	3								0.87							City Engineer, Boulder.		
Sterling.	Jackson.	8,700	3															Frank W. Murphy.		
Logan.	3,892	4	42.6		81	13	6	30	58	0.81		0.40	T.	3	15	6	10	Great Western Sugar Co.		
Waterdale.	Larimer.	5,206	10	46.3		85	13	1	29	46	0.02		0.02	T.	1	17	4	10	P. H. Boothroyd.	
Wray.	Yuma.	3,512	17	48.6	-2.6	88	13	8	29	54	0.73	-0.28	0.68	T.	2	14	14	3	J. C. Tuohemey.	
Yuma.	do.	4,138	22								0.46	-0.56	0.46	T.	1	12	12	7	Matthew Harr.	
Nebraska.																				
Ainsworth.	Brown.	2,521	8	44.0		82	3	8	29	39	0.33	-1.92	0.13	1.0	3	5	12	14	John M. Cotton.	
Albion.	Boone.	1,747	15	46.4	-5.3	88	4	3	29 ^c	56 ^b	0.06	-1.92	0.06	T.	1	7	5	19	F. M. Weltzel.	
Alliance.	Boxbutte.	3,968	18	41.8	-5.4	81	13	1	29	48	0.20	-0.67	0.10	1.0	2	18	11	4	J. A. Keegan.	
Alma.	Harlan.	1,039	18	48.6	-5.2	85	13 ^c	5	29	48	0.28	-1.39	0.18	T.	3	14	13	4	W. A. Sharpnack.	
Arcadia.	Valley.	2,186	15								1.70		0.06	0.5	3	18	11	2	J. L. Owen.	
Arden.	Wheeler.		3								0.12		0.06	0.5	3	18	11	2	A. E. Johns.	
Ashland.	Saunders.	1,100	31	51.6	-3.1	84	3	16	29	39	0.71	-1.37	0.31	0.5	9	16	13	10	Dr. A. S. Mansfelde.	
Ashton.	Sherman.	2,001	20								0.02	-1.77	0.02	T.	1	17	4	10	F. Rein.	
Atkinson.	Holt.	2,108	8	46.3		85	13	1	29	46	1.10		1.00	T.	2	21	7	3	C. J. Wilson.	
Auburn.	Nemaha.	1,051	21	52.0	-3.6	84	3	17	30	39	2.09	-0.89	0.57	0.5	9	17	5	9	J. R. Huffman.	
Aurora.	Hamilton.	1,792	19								0.31	-1.90	0.31	T.	1	18	5	8	A. D. Travis.	
Beatrice.	Gage.	1,235	23	50.0	-4.7	80	3 ^c	16	29 ^c	37	0.87	-1.33	0.21	T.	2	20	6	5	H. C. Mead.	
Beaver City.	Furnas.	2,147	23	52.4	-1.9	85	3	6	29	42	0.19	-1.12	0.15	T.	2	17	11	3	Dr. L. C. Bleck.	
Bellevue.	Sarpy.	2,210	32	50.6	-1.0</td															

TABLE 1.—Climatological data for October, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.			Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.					
Nebraska—Continued.																						
Cambridge.	Furnas.	2,258	7	50.2	—	88	13†	3	29	53	0.42	—	0.42	—	1	15	10	6	n.	Chas. Jensen.		
Columbus.	Platte.	1,442	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. L. Rush.			
Crete.	Saline.	1,348	30	50.2	—3.6	82	3†	14	29	39	0.90	—1.27	0.32	0.2	8	18	6	9	n.	Doane College.		
Culbertson.	Hitchcock.	2,565	26	49.4	—	87	13	3	29	56	0.39	—0.70	0.39	—	1	18	7	6	nw.	Homer L. Nye.		
Curly.	Sioux.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. E. Hann.			
Curtis.	Frontier.	2,553	16	48.7	—3.1	84	3†	9	29	63	0.22	—1.14	0.19	T.	2	18	7	6	ne.	Dr. S. R. Razee.		
Dalton.	Cheyenne.	4,273	1	—	—	—	—	—	—	—	—	—	0.20	T.	6	19	5	7	se.	J. C. Frandsen.		
David City.	Butler.	1,619	24	50.2	—1.1	81	3	11	29	42	0.47	—1.60	0.20	T.	—	—	—	—	nw.	S. Clingman.		
Du Bois.	Pawnee.	1,074	9	—	—	—	—	—	—	—	—	—	3.01	—	1.09	0.2	4	11	nw.	O. M. Backus.		
Dumas.	Garfield.	6	46.6	—	—	87	3†	3	29	47	0.17	—	0.11	1.0	3	20	9	2	n.	Emile Rass.		
Elm Creek.	Buffalo.	2,208	6	—	—	—	—	—	—	—	—	—	0.00	—	0.00	0	—	—	E. L. Sutton.			
Elsie.	Perkins.	3,382	0	—	—	—	—	—	—	—	—	—	0.23	—	0.10	—	4	—	s.	J. F. Brittain.		
Ericson (near).	Garfield.	2,029	21	—	—	—	—	—	—	—	—	—	0.02	—1.65	0.02	—	1	24	2	5	s.	J. A. Bodyfield.
Ewing.	Holt.	1,888	23	46.4	—	93	2	1	29	55	0.95	—	1.72	0.05	T.	—	—	—	—	G. H. Benson.		
Exeter.	Fillmore.	1,607	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Frank Ainsworth.			
Fairbury.	Jefferson.	1,316	38	51.0	—3.7	87	2	13	29	44	0.93	—1.26	0.37	T.	9	15	11	5	nw.	W. F. Crabb.		
Fairmont.	Fillmore.	1,641	20	47.8	—4.6	84	13	9	29	52	0.58	—1.93	0.25	2.0	3	14	10	7	n.	C. B. & Q. R. R. Co.		
Falls City.	Richardson.	898	19	53.9	—3.3	80	3	17	30	40	2.83	—	0.31	1.47	T.	7	17	8	6	se.	Dr. J. C. Yutzy.	
Fort Robinson.	Dawes.	3,764	31	43.4	—4.5	82	13	11	29	45	1.62	+0.29	0.50	3.3	8	9	12	10	w.	Post Surgeon.		
Franklin.	Franklin.	1,820	24	50.3	—2.8	85	13	6	29	47	0.13	—1.50	0.07	T.	2	7	16	8	se.	A. R. Peck.		
Fremont.	Dodge.	1,203	32	50.0	—2.5	86	2	12	29	46	1.18	—	1.01	0.75	T.	4	14	9	8	nw.	Ernest Hahn.	
Fullerton.	Nance.	1,629	7	48.3	—3.1	88	3	5	29	50	T.	—	2.06	T.	0	17	12	2	se.	Dr. F. W. Johnson.		
Geneva.	Fillmore.	1,033	24	51.4	—2.6	85	13	10	29	44	1.04	—1.26	0.52	0.2	5	14	12	5	s.	F. M. Flory.		
Genoa.	Nance.	1,584	38	49.6	—1.4	84	4	9	29	47	0.08	—1.68	0.08	T.	1	21	5	5	s.	F. W. Parsons.		
Gordon.	Sheridan.	3,550	11	—	—	—	—	2	29	—	0.20	—0.62	0.20	—	1	—	—	—	—	G. F. Williams.		
Gosper.	Gosper.	—	12	—	—	—	—	—	—	—	0.05	—1.55	0.05	—	1	16	11	4	nw.	E. H. Stoll.		
Gothenburg.	Dawson.	2,557	20	47.8	—4.3	86	3†	3	29	50	0.26	—1.26	0.15	T.	3	20	9	2	nw.	S. S. Kaufman.		
Grand Island.	Hall.	1,860	22	50.0	—2.6	88	1	6	29	58	0.21	—2.25	0.21	T.	1	14	7	10	n.	E. A. Barnes.		
Grant.	Perkins.	3,495	10	47.2	—	90	13	2	29	55	0.08	—1.20	0.08	T.	1	24	1	6	se.	Anson K. Holmes.		
Greeley.	Greeley.	2,021	19	47.4	—	83	3	4	29	42	0.11	—1.59	0.05	0.3	4	20	7	4	n.	W. E. Morgan.		
Guide Rock.	Webster.	1,646	14	—	—	—	—	—	—	—	0.33	—1.38	0.28	T.	2	12	12	7	nw.	J. S. Marsh.		
Haigler.	Dundy.	3,258	19	—	—	—	—	—	—	—	0.00	—0.70	0.00	0	—	—	—	—	—	J. L. Pember.		
Halsey.	Thomas.	2,695	10	47.6	—3.2	87	13	1	29	42	0.64	—1.67	0.52	—	5	18	8	5	nw.	Bureau of Forestry.		
Hartington.	Cedar.	1,309	20	48.5	—2.6	88	3	6	29	44	0.34	—1.41	0.20	2.0	3	6	18	7	nw.	D. E. Ewing.		
Hastings.	Adams.	1,932	24	48.1	—4.6	84	13	9	29	49	T.	—	2.05	T.	0	19	7	5	nw.	C. B. & Q. R. R. Co.		
Hayes Center.	Hayes.	18	48.2	—	—	88	12	2	29	52	0.09	—0.77	0.64	—	2	24	5	2	s.	Jos. M. Crosby.		
Hay Springs.	Sheridan.	3,821	28	44.2	—2.9	83	13	4	29	44	0.64	—0.62	0.20	3.0	4	9	15	7	n.	A. Kadlecak.		
Hebron.	Thayer.	1,458	28	50.5	—3.5	84	13†	13	29	39	0.94	—1.06	0.43	T.	6	—	—	—	—	Dr. C. M. Easton.		
Hemingford.	Boxbutte.	4,256	5	—	—	—	—	—	—	—	0.33	—	0.10	—	6	—	—	—	—	A. S. Enyeart.		
Hendley.	Furnas.	2,231	9	—	—	—	—	—	—	—	0.24	—	0.24	—	1	—	—	—	—	T. L. Jones.		
Hershey.	Lincoln.	2,902	3	—	—	—	—	—	—	—	0.12	—	0.12	0.5	4	18	1	12	—	G. F. Palmer.		
Hillsdale.	McPherson.	3,484	5	44.8	—3.3	85	12	7	29	55	T.	—	1.57	T.	0	14	8	9	nw.	Mrs. M. R. Lloyd.		
Holdrege.	Phelps.	3,324	24	49.4	—3.3	85	12	7	29	55	T.	—	—	—	—	—	—	—	—	C. B. & Q. R. R. Co.		
Hooper.	Dodge.	1,238	—	—	—	—	—	—	—	—	0.62	—	0.23	T.	3	14	0	17	w.	Dr. W. P. Miller.		
Hull (near).	Banner.	3	—	—	—	—	—	—	—	—	0.30	—0.30	0.30	T.	1	6	16	9	nw.	Robt. Malcolm.		
Imperial.	Chase.	3,278	24	48.0	—1.4	86	13	2	29	52	0.30	—1.37	0.05	—	1	14	13	4	n.	City Engineer.		
Kearney.	Buffalo.	2,146	30	50.4	—3.1	85	3	6	29	47	0.05	—1.73	0.05	T.	1	13	13	5	nw.	F. J. Bellows.		
Kimball.	Kimball.	4,697	26	45.1	—2.8	82	13	9	29	45	0.18	—0.46	0.18	T.	1	13	13	3	nw.	Mrs. C. Arter.		
Kirkwood.	Rock.	18	46.4	—3.6	90	13†	3	2	29	49	0.52	—1.33	0.35	T.	4	15	13	3	nw.	Geo. W. Hulse.		
Kowanda.	Garden.	5	—	—	—	—	—	—	—	—	0.49	—	0.33	—	6	—	—	—	—	Robt. Chadwick.		
Lexington.	Dawson.	2,355	25	48.3	—2.8	86	3	2	29	47	0.05	—1.37	0.05	T.	1	26	0	5	e.	U. S. Weather Bureau.		
Lincoln.	Lancaster.	1,189	33	50.9	—2.4	84	3	15	29	36	0.70	—1.12	0.30	0.5	7	13	10	8	n.	R. T. Kidney.		
Lodgepole.	Cheyenne.	3,820	14	48.9	—0.4	87	13	11	29	51	0.74	+0.12	0.56	2.0	3	17	6	8	n.	Harriet Hayhurst.		
Loup City.	Sherman.	2,067	5	47.2	—3.7	84	3	5	29	49	0.04	—1.02	0.04	—	1	29	2	0	n.	Jas. Bailey.		
Loyal.	Custer.	—	—	—	—	—	—	—	—	—	0.05	—	0.05	—	1	—	—	—	—	Anton Basta.		
Lynch.	Boyd.	18	—	—	—	—	—	—	—	—	1.35	—0.24	1.03	0.8	2	15	15	1	nw.	Lon Cone.		
McCook.	Redwillow.	2,506	19	47.4	—5.8	88	13	—	29	53	0.25	—0.76	0.20	—	2	24	7	0	s.	L. L. Slagel.		
McCool Junction.	York.	1,575	—	—	—	—	—	—	—	—	0.05	—	0.24	0.05	T.	1	—	—	—	—	Dr. F. A. Long.	
Madison.	Madison.	1,585	21	46.4	—4.6	83	3	8	29	44	0.19	—1.65	0.14	0.5	2	19	2	10	nw.	John Ellis.		
Marquette.	Hamilton.	1,830	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	G. C. Stuft.		
Mary.	Brown.	3	—	—	—	—	—	—	—	—	0.38	—	0.29	—	—	—	—	—	—	J. A. Ambserry.		
Mason City.	Custer.	2,257	14	—	—	—	—	—	—	—	0.20	—1.71	0.15	—	2	23	6	2	nw.	A. Kennedy.		
Minatare.	Scotts Bluff.	3,525	4	—	—	—	—	—	—	—	0.31	—	0.28	—	—	—	—	—	—	Joel Hull.		
Minden.	Kearney.	2,169	36	49.5	—2.7	82	13†	6	29	42	0.04	—1.98	0.02	—	3	14	16	1	nw.	U. S. Reclamation Service.		
Mitchell.	Scotts Bluff.	3,050	45	46.5	—	82	13†	12	29	50	0.35	—	0.12	0.4	5	11	14	6	n.	C. B. & Q. R. R. Co.		
Nebraska City.	Otoe																					

TABLE 1.—Climatological data for October, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.						
Nebraska—Continued.																				
Superior.	Nuckolls.	1,574	30								0.00	-2.14	0.00	0	0	F. V. Bishop.				
Syracuse.	Otoe.	1,059	21	51.2	-3.3	86	3	14	30	44	1.51	-0.75	0.48	0.3	5	se.	W. N. Hunter.			
Table Rock.	Pawnee.	1,023	24								2.69	+0.07	0.80	0.2	9	s.	E. D. Howe.			
Tecumseh.	Johnson.	1,113	35	52.0	-2.7	85	3	15	29	39	1.80	-0.83	0.45	T.	8	Dr. C. H. Davies.				
Tekamah.	Burt.	1,060	22	48.7	-4.4	84	3†	12	30	43	2.26	+0.31	1.60	1.0	5	nw.	Dr. A. D. Nesbit.			
University Farm.	Lancaster.	29	50.7	-4.0	87	4	13	30†	42	0.85	-1.32	0.62	T.	4	s.	S. W. Perlin.				
Upland.	Franklin.	2,158	1								T.	T.	T.	T.	0	n.	L. P. Zettle.			
Valentine.	Cherry.	2,613	25	44.2	-4.3	88	3	5	29	41	0.19	-1.13	0.11	T.	5	nw.	U. S. Weather Bureau.			
Wahoo.	Saunders.	1,187	11								1.48	-0.78	0.85	0.30	4	s.	W. T. Mauck.			
Wakefield.	Dixon.	1,387	20	47.2	-4.2	85	3	7	29†	54	0.54	-1.48	0.39	0.9	3	s.	I. H. Weaver.			
Waitbill.	Thurston.	10	48.8	-4.3	84	3	9	31	43	0.20	-1.85	0.15	0.5	2	n.	G. A. Dudley.				
Watertown.	Buffalo.	2,299	8								0.00		0.00	0	0	n.	R. E. Swift.			
Weeping Water.	Chase.	2,935	15								0.30	-0.85	0.30	1	1	n.	C. D. Fuller.			
Westpoint.	Cass.	1,080	35	49.8	-2.8	85	3	12	30	46	1.83	-0.45	0.56	0.5	9	nw.	S. W. Orton.			
Wisner.	Cuming.	1,313	26	51.0	-2.8	85	2	12	29	45	0.62	-1.15	0.22	2.0	3	n.	J. C. Elliott.			
York.	do.	1,380	17								0.23	-2.10	0.20	0	0	n.	F. C. Evans.			
	York.	1,633	26	49.24	-4.6			10	29	43b	0.15	-1.96	0.10	0.5	2	nw.	A. T. Glauque.			
Iowa.																				
Afton.	Union.	1,212	19	51.4	+1.9	82	3	18	21†	32	3.48	+0.86	1.34	T.	9	sw.	N. W. Rowell.			
Allerton.	Wayne.	11	52.2	-2.0	87	3	17	31	38	5.34	+3.32	1.99	T.	8	w.	Mande Chase.				
Alton.	Sioux.	1,305	8	46.0	-2.1	85	3	5	21	49	0.35	-0.10	2.0	T.	6	nw.	W. S. Slagle.			
Atlantic.	Cass.	1,164	22	49.5	-2.1	92	3	14	31	37	1.78	-0.74	0.83	T.	12	ne.	Thos. H. Whitney.			
Audubon.	Audubon.	1,301	19	48.0	-2.9	78	3	15	21†	31	0.97	-1.19	0.75	T.	4	sw.	Geo. E. Kellogg.			
Bedford.	Taylor.	13	50.8	-3.5	83	3	11	31	41	3.03	+0.75	1.26	T.	9	s.	E. E. Healy.				
Centerville.	Appanoose.	1,013	23	52.8	-3.1	88	3†	23	21†	47	4.60	-1.87	T.	13	sw.	Gordon Peacock, jr.				
Chariton.	Lucas.	1,042	18	51.1	-3.1	87	3	14	31	40	5.52	+3.16	2.38	T.	7	w.	C. C. Burr.			
Clarinda.	Page.	1,006	23	49.7	-4.3	84	3	16	31	47	2.75	+0.25	0.96	0	8	sw.	A. S. Van Sandt.			
Corning.	Adams.	1,117	21	51.1	-3.1	81	3	14	31	39	5.00	+2.65	1.97	T.	8	nw.	Jerome Smith.			
Corydon.	Wayne.	1,101	20	52.1	-2.7	87	3	15	31	39	2.29	+4.80	2.57	0.2	11	s.	May C. Miller.			
Council Bluffs.	Pottawattamie.	990	3	49.4	-3.1	84	4	10	30	40	2.04	-0.07	1.07	T.	6	nw.	B. W. Crossley.			
Creston.	Union.	1,312	8	48.7	-3.1	82	3	15	31	47	4.15	-1.04	0.40	T.	9	s.	O. J. Colby.			
Cumberland.	Cass.	14	50.0	-3.0	80	3	11	31	39	6.27	+3.66	2.00	0	7	nw.	J. H. Reppert.				
Denison.	Crawford.	1,180	19	48.0	-2.8	82	3	11	31	39	0.90	-0.13	1.05	0.5	6	s.	W. C. Van Ness.			
Elliott.	Montgomery.	8	50.8	-0.1	89	14	31	40	1	62	-0.70	0.78	0	5	16	2	se.	C. H. Westrop.		
Greenfield.	Adair.	21	54.3	+1.2	85	3†	11	31	36	1.19	+0.91	1.06	T.	8	nw.	Frank A. Ward.				
Harlan.	Shelby.	1,182	14	47.7	-5.1	82	3	11	31	36	1.19	-1.57	0.82	T.	6	s.	C. A. Reynolds.			
Inwood.	Lyon.	1,474	9	45.7	-3.1	88	3	12	30	49	1.36	-0.77	3.0	T.	9	s.	F. B. Hanson.			
Lake Park.	Dickinson.	1,479	45.8	-3.8	82	13	9	21	38	0.62	-0.42	0.5	T.	3	nw.	A. E. Woodruff.				
Lamoni.	Decatur.	1,120	6	52.4	-3.8	88	3	19	31	39	4.97	-1.35	T.	20	1	s.	T. J. Fitzpatrick.			
Le Mars.	Plymouth.	1,224	17	47.0	-4.3	84	3	9	21	40	0.50	-1.39	0.36	1.0	3	se.	G. A. Clarke.			
Lenox.	Taylor.	1,250	18	50.6	-3.0	81	3†	17	31	31	3.31	+0.78	1.22	T.	9	nw.	J. L. Hurley.			
Leon.	Decatur.	1,210	11	50.8	-2.8	84	1	18	31	40	6.21	+4.13	1.80	0.5	9	s.	Morris Gardner.			
Little Sioux.	Harrison.	8	49.9	-2.6	89	9	10	21	43	4.05	+2.06	0.05	1.51	0.5	4	nw.	Geo. H. Gibson.			
Logan.	Ringgold.	928	46	49.8	-2.4	83	3†	13	16	40	1.70	-0.69	1.00	1.0	3	nw.	Glenn H. Stern.			
Mount Ayr.	Clarke.	1,236	20	51.8	-3.1	83	3†	18	31	33	3.72	+1.46	1.30	T.	9	s.	Alex. Maxwell.			
Murray.	Page.	1,216	22	51.2	-3.0	82	3	18	31	33	3.07	+0.83	1.25	T.	9	nw.	M. T. Ashley.			
Northboro.	Sac.	1,046	1	52.0	-3.9	85	3	17	30	35	2.97	-0.07	1.03	T.	6	nw.	J. H. Darby.			
Odeboit.	Monona.	1,356	16	49.0	-3.9	85	3	12	21	34	2.61	+0.56	1.22	0.5	5	nw.	E. Starner.			
Omaha.	Pacific Junction.	1,051	13	50.6	-4.2	85	3	16	21†	44	1.55	-0.84	0.97	1.0	7	nw.	C. G. Perkins.			
Rock Rapids.	Mills.	960	14	49.1	-5.3	84	3†	11	20†	39	0.95	-0.35	1.01	0.1	7	nw.	H. H. McCartney.			
Spencer.	Lyon.	1,358	14	43.0	-4.0	80	2†	7	31	45	0.55	-0.46	0.45	1.0	2	n.	W. C. Wyckoff.			
Thurman.	O'Brien.	1,422	13													nw.	Geo. Appuler.			
Washta.	Oscoda.	1,212	20	45.4	-4.2	86	3	4	21	42	0.69	-1.40	0.24	1.2	7	s.	H. G. Doolittle.			
	Sioux Center.	14	46.8	-4.2	83	3	10	30	40	0.41	-1.77	0.20	2.0	4	21	s.	J. de Ruyter.			
	Sioux City.	1,133	24	47.3	-3.8	84	3	10	29	39	0.76	-1.03	0.31	2.7	5	14	nw.	U. S. Weather Bureau.		
	Clay.	16	49.9	-4.9	83	3	13	30	43	1.50	-1.67	0.57	T.	4	10	11	10	nw.	S. Gillespie.	
	Cherokee.	1,157	15	47.4	-1.6	81	3	7	21	45	0.98	-1.11	0.72	0.5	4	17	7	s.	C. R. Paul.	
																	nw.	H. L. Feiter.		
Kansas.																				
Abilene.	Dickinson.	1,157	18																	T. W. Sherman.
Agricultural College.	Riley.	1,100	55	54.7	-1.3	86	20	19	29†	41	1.84	-0.19	0.96	T.	6	11	6	14	s.	Prof. J. O. Hamilton.
Alton.	Osborne.	1,651	11	53.8	-2.0	87	13	9	29	47	0.90	-0.63	0.67	T.	6	17	6	8	w.	H. A. Storer.
Atchison.	Atchison.	973	22	53.8	-3.8	85	6	21	30	32	4.33	+1.79	1.53	T.	10	19	7	5	s.	Prof. E. M. Stahl.
Beloit.	Mitchell.	1,383	18	54.4	-3.6	88	13†	13	29	45	0.72	-1.28	0.50	0.2	5	9	17	5	nw.	F. A. Slack.
Blakeman.	Rawlins.	2,894	16	48.8	-4.8	90	13	3	29	52	0.35	-0.75	0.35	T.	1	15	9	7	nw.	C. L. Henderson.
Blue Rapids.	Marshall.	1,105	7																	M. Norton.
Centralia.	Marshall.	1,250	4	52.8	-61	84	3	16	30	39	2.35	-1.12	0.55	T.	10	12	0	9	sw.	N. S. Hazen.
Chapman.	Dickinson.	1,113	9																	W. S. Robb.
Clay Center.	Clay.	1,203	12	53.6	-2.4	86	2	14	29	46	1.80	-0.18	0.85	T.	4	12	5	14	sw.	O. L. Slade.
Colby.	Thomas.	3,138	22	50.4	-2.5	85	13	7	29	43	0.29	-0.73	0.17	0	3	11	18	2	nw.	G. H. Kinkel.
Concordia.	Cloud.	1,398	29	53.4	-2.0	85	2	15	29	46	3.19	-0.81	1.00	0.4	6	9	13	9	s.	U. S. Weather Bureau.
Densmore.	Norton.	2,200	4	50.8	-3.8	81	13	10	29	48	0.75	-0.75	1.53	T.	1	26	2	3	nw.	Miss Irene Vaughn.
Dresden.	Decatur.	2,731	19	51.2	-3.6	88	13	8	29	41	0.26	-1.11	0.26	0	0	17	6	8	nw.	Jacob Bock.
Ellsworth.	Ellsworth.	1,537	9	54.3	-3.6	83	2†	15	29	41	1.12	-0.37	T.	6	10	14	7	s.	Geo. Seitz.	
Emmett.	Pottawatomie.	1,024	1																	Frank Zina.
Eskridge.	Wabaunsee.	1,412	7	53.7	-3.8	83	6	17	29											

TABLE 1.—Climatological data for October, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			
Kansas—Continued.																				
Lebanon.	Smith.	1,812	15					10 ^b	29	40	0.34	0.14	T.	4	19	9	3	E. V. Bower.		
Lenora.	Norton.	2,300						2	29	48	0.10	0.08	T.	2	11	7	13	J. S. Goodrich.		
Leoti.	Wichita.	3,300	10	51.0		88	3 ^c	2	29	48	0.26	0.61	T.	6	11	9	5	L. E. Gorsuch.		
Lincoln.	Lincoln.	1,374	1	54.6		88	13 ^c	17	27 ^c	41	1.26	1.55	0.1	4	15	7	13	R. W. Greene.		
Lindsborg.	McPherson.	1,333	7								1.83		0.20	T.	3	17	12	2	A. J. Fredrickson.	
McCracken.	Rush.	2,139	1	53.4		90	14	13	29	42	0.43	1.61	3.0	6	6	7	18	E. D. Floyd.		
Manhattan.	Riley.	1,014	21	55.2	-1.3	88	2	19	29	40	2.76	+ 0.49	0.20	T.	3	17	12	2	C. P. Blachly.	
Minneapolis.	Ottawa.	1,259	23	53.2	-3.1	84	2	15	29	38	0.98	1.02	0.75	0.7	6	18	5	8	J. L. Steele.	
Moran.	Allen.	1,098	17	56.3	-2.7	87	2 ^c	20	29	36	3.36	+ 1.19	1.15	3.0	9	16	7	8	C. J. Norton.	
Natoma.	Osborne.	1,834	4	50.4	-3.4	86	3	9	29	42	1.08	- 0.36	0.91	T.	4	11	19	1	C. O. Hunt.	
Norton.	Norton.	2,284	15	50.4	-3.4	86	3	9	29	42	1.08	- 0.36	0.91	T.	4	11	19	1	Sim Sleefel.	
Oberlin.	Decatur.	2,539	26	51.2	-2.7	89	13	5	29	48	0.83	- 0.38	0.80	0	2	16	8	7	I. K. Huber.	
Oketo.	Marshall.	1,194	5	52.8		88	2	18	29 ^c	40	2.47	0.97	0.2	6	9 ^a	13	8	J. A. Church.		
Olathe.	Johnson.	1,032	18	54.0	-3.6	87	3 ^c	18	30	37	4.23	+ 1.96	1.05	4.0	15	8	8	Dr. S. B. S. Wilson.		
Oskaloosa.	Jefferson.	991									4.66	+ 0.04	0.82	2.5	8	16	4	11	Ralph Snyder.	
Ottawa.	Franklin.	926	19	55.0	-2.2	88	5	20	29 ^c	40	2.66	+ 0.04	0.82	2.5	8	16	4	11	W. J. Sheldon.	
Phillipsburg.	Phillips.	1,939	22	53.2	-2.7	86	13	15	27	42	1.05	- 0.53	1.05	T.	1	12	18	1	N. E. Bailey.	
Plainville.	Roarks.	2,156	7															P. D. Spellman.		
Pleasanton.	Linn.	862	11	56.0	-2.0	87	6	21	29	34	3.63	+ 0.63	0.86	1.0	8	19	5	7	B. F. Blaker.	
Quememo.	Osage.	941	1								4.44		1.64	0.6	10	17	8	6	R. L. Graham.	
Republic.	Republic.	1,495	10	52.0		88	2 ^c	12	29	44	1.29		0.57	T.	6			J. W. Ambrose.		
Russell.	Russell.	1,834	14	54.0	-1.7	88	14	14	29	38	1.07	- 0.83	0.61	1.0	4	14	9	8	Robert Brebner.	
Russell Springs.	Logan.	3	52.0			85	3 ^c	9	29	52	0.08		0.05	T.	2	17	11	3	J. H. Hutto.	
St. Francis.	Cheyenne.	3,288	5	48.9		90	13	17	29	53	0.03		0.02	T.	2	12	11	8	J. E. Uplinger.	
Salina.	Saline.	1,227	29	53.2	-3.5	82	5 ^c	16	29	35	1.83	- 0.26	1.07	1.0	5	14	13	4	Prof. A. W. Jones.	
Scott.	Scott.	2,971	7	52.9		86	14	9	29	47	0.10		0.10	T.	1	24	7	0	J. B. Loughran.	
Smith Center.	Smith.	1,800	3	52.6		86	13	10	29	48	0.37		0.33	T.	2	14	15	2	W. H. Nelson.	
Topeka.	Shawnee.	997	27	53.6	-2.7	84	2	20	29	34	6.16	+ 4.25	2.05	1.5	11	12	12	7	U. S. Weather Bureau.	
Tribune.	Greeley.	3,612	14	51.3		90	14	8	29	48	0.07	- 0.63	0.05	0.2	2	18	6	7	Charles E. Cassel.	
Valley Falls.	Jefferson.	913	14	52.7	-4.9	83	2 ^c	17	30	38	5.98	+ 4.05	2.50	1.2	9	14	10	7	Miss Nettie Maxwell.	
Vinland.	Douglas.	880	4								6.20		2.57	1.5	9	14	10	7	A. Schick.	
Wakeeney.	Trego.	2,456	30	52.8	-2.6	84	9	10	29	42	0.20	- 1.11	0.14	T.	2	18	11	2	s.	
Wallace.	Wallace.	3,303	43	50.8	-2.9	89	13	7	29	55	T.	0.91	T.	0	0	24	6	1	s.	
Wamego.	Pottawatomie.	1,002	20	54.9		85	3 ^c	20	29 ^c	34	2.12	+ 0.12	1.40	0.5	5	13	13	5	sw.	
Missouri.																				
Amoret.	Bates.	850	5	55.7		87	6	20	29 ^c	37	3.48		0.87	1.0	7	15 ^a	7 ^a	8 ^a	Derby Fruit Farm.	
Appleton City.	St. Clair.	853	24			88	1	20	31	46	1.73	- 0.52	1.20	4.0	4	9	6	16	Robert Brown.	
Arlington.	Phelps.	695	10								5.06	+ 3.28	1.30	11.5	13	9 ^a	2 ^a	15	G. V. Randolph.	
Arthur.	Vernon.	767	23			88	7	20	28	38	3.27	+ 0.94	2.10	3.5	5	14	6	11	J. T. Armstrong.	
Avalon.	Livingston.	29	29	54.4	-3.3	86	3	23	21	36	5.25	+ 1.83	1.20	2.5	8	18	3	10	F. G. Ashbaugh.	
Bethany.	Harrison.	881																W. H. Smurr.		
Boilier.	Polk.	1,070	26	56.6	-2.0	91	6	22	29	42	4.32	+ 1.59	1.60	3.0	11	18	7	6	sw.	
Boonville.	Cooper.	600	37								3.02	+ 0.25	1.03	1.0	8	18	0	13	C. Randecke.	
Brunswick.	Charlton.	652	35	54.6	-1.9	87	3	23	31	40	2.76	- 0.10	0.58	3.0	9	17	2	12	nw.	
Clinton.	Henry.	800	25	55.0		88	3 ^c	20	28	41	5.13	+ 2.76	1.00	1.0	10	13	10	8	A. E. Dorwent, M. D.	
Columbia.	Boone.	784	25	53.8	-1.0	85	6	24	31	35	2.40	- 0.02	0.77	2.9	7	13	6	12	U. S. Weather Bureau.	
Conception.	Nodaway.	982	28	51.8	-3.7	82	3	11	31	36	2.30	- 0.08	0.76	T.	9	12	12	7	F. Adhelm Hess.	
Crocker.	Pulaski.	1,300	3	54.8		89	6	24	29 ^c	42	4.73		2.03	6.0	6	10	0	12	Roy Reed.	
Duncan.	Webster.	1	15	54.2		85	6 ^c	18	28	42	4.22		1.38	18.0	13	14	7	10	C. A. Mingus.	
Elidon.	Miller.	934	2	54.9		86	6	23	29 ^c	37	3.57		0.99	4.6	10	13	11	7	nw.	
Fayette.	Howard.	725	31	52.8	-4.2	84	5	23	30	35	2.54	+ 0.21	1.00	2.0	8	14 ^a	34	10	Charles E. Kellogg.	
Fulton.	Callaway.	818	23	54.9	-2.9	87	7	23	31	39	2.01	- 0.45	0.76	T.	5	17 ^a	24	9	Russell Johnston.	
Glasgow.	Howard.	618	36								3.24	+ 0.77	0.88	4.0	6	16	2	13	J. J. Shaughnessy.	
Grant City.	Worth.	1,130	22	52.7	-2.2	88	3	19	31	34	4.28	+ 1.49	1.50	T.	8	20	0	1	W. H. Campbell.	
Harrisonville.	Cass.	912	42	53.3	-2.6	87	6	22	30 ^c	37	5.60	+ 3.62	1.59	0.5	7	18	0	18	A. J. Sharp.	
Hazellhurst.	Livingston.	21									6.22	+ 3.74	2.25	2.0	10	9	7	15	W. H. Baker.	
Hermann.	Gasconade.	482	40								7.06	+ 4.59	2.10	0.0	11	5	19	7	13	C. T. Maushund.
Houston.	Texas.	1,280	22	53.8	-3.3	84	6	11	28	40	2.59	+ 0.44	0.74	1.0	9	17	1	13	E. Dempsey.	
Jefferson City.	Cole.	628	32	52.6	-4.1	85	3 ^c	22	29 ^c	40	5.64	+ 3.43	1.94	3.0	7	13	8	10	Miss Emma Swift.	
Kansas City.	Jackson.	963	26	54.6	-1.2	85	6	23	29	37	2.40	- 0.02	0.77	2.0	10	16	5	sw.	U. S. Weather Bureau.	
Kidder.	Caldwell.	1,017	24	53.8	-2.3	87	12	21	30	38	6.03	+ 3.31	2.75	2.0	8	17	4	10	J. F. Sharp.	
Lamont.	Pettis.	863	26	53.3		88	12	23	30	40	3.47	+ 1.37	0.70	3.0	8	17	4	10	J. Ed. Hall.	
Lebanon.	Laclede.	1,265	26	53.8	-4.7	86	1	20	28	36	4.06	+ 2.03	1.78	6.0	7	19	5	7	M. W. Serl.	
Lexington.	Lafayette.	813	32	54.1	-3.5	84	3 ^c	24	28 ^c	36	4.73	+ 2.15	2.00	2.8	8	20	0	11	J. W. Keithley.	
Liberty.	Clay.	864	26	55.3	-1.9	88	3 ^c	23	28 ^c	37	6.54	+ 4.35	2.25	2.0	9	19	1	16	W. C. Wilmot.	
Lockwood.	Dade.	1,088	18	55.6		86	6	20	29	34	4.96	+ 2.01	1.81	5.0	9	22	1	8	C. S. Crow.	
Marshall.	Saline.	779	24	54.1	-2.8	85	3	22	30	37	3.21	+ 0.78	0.55	2.0	9	18	2	11	Prof. W. H. Black.	
Marystown.	Nodaway.	1,180	24	51.0	-2.5	85	3 ^c	17	30	42	2.87	+ 0.46	1.30	T.	8	18	4	9	J. R. Brink.	
Mount Vernon.	Lawrence.	1,480	37	55.2	-4.2</															

TABLE 2.—*Daily precipitation for October, 1913. District No. 6, Missouri Valley.*

TABLE 2.—*Daily precipitation for October, 1913. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for October, 1913. District No. 6—Continued.*

Stations,	Watershed.	Day of month.																													Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
<i>South Dakota.</i>																																			
Aberdeen	James.	T.		3.10	.10				T.	.50																							3.95		
Academy.	Missouri.	T.			.02					.20																							0.47		
Alexandria.	James.	T.								.88																							0.98		
Ardmore.	Cheyenne.																																0.20		
Armour.	Missouri.																																1.32		
Belle Fourche.	Cheyenne.																																0.48		
Blunt.	Missouri.	T.	.48		.25																												2.28		
Britton.	James.	1.40	.30							.25																							1.55		
Brookings.	Big Sioux.									.10	.04																								
Bryant.	do.																																		
Camp Crook.	Lt. Missouri.									.49	.22	.11																					1.16		
Canton.	Big Sioux.									.18																							1.41		
Castlewood.										.05	.05	.01																				1.29			
Centerville.	Missouri.									.05	.20	.02																				1.25			
Chamberlain.	do.																																T.		
Clark.	James.									2.32	.08	T.																				4.14			
Cottonwood.	Missouri.									.46	.03																					0.76			
Custer.	Cheyenne.									.95	.55																					1.97			
Davidson.	Owl.									.57	.10	.43																				1.20			
Deadwood.	Cheyenne.									1.05	.40																					2.25			
Deerfield.	do.									1.35	.18	.15																				2.33			
De Smet.	James.									1.10	.10	.15																				1.35			
Dowling.	Cheyenne.																																		
Dumont.	do.																																		
Eagle Butte.	Grand.																																		
Eales.	Missouri.	T.	.78	.03	.03						.05																						1.09		
Elk Mountain.	Cheyenne.									.66	.14	.25																				1.36			
Ellingson.	Grand.									.53	.06	.19																				1.08			
Eureka.	Missouri.									1.22	.02	.02																				1.52			
Fairfax.	do.																																	0.35	
Faith.	Cheyenne.	T.	.85	.03	.55																												1.48		
Faulkton.	James.									1.48	.08	.12																					2.02		
Flandreau.	Big Sioux.																																		
Forestburg.																																			
Fort Meade.	Cheyenne.																																	1.73	
Goldfield.	do.									1.02	.31	.10																					1.71		
Greenmont.	do.									.48	.40	.22																					1.90		
Greenwood.	Missouri.																																	1.23	
Hardingrove.	Cheyenne.																																		
Hardy Ranger Sta.	do.																																		2.60
Harvey's Ranch.	do.																																	2.07	
Hermosa.	do.																																	1.24	
Highmore.	Missouri.									.32		.16																					0.61		
Hopewell.	Cheyenne.									.42	.05																						0.84		
Hot Springs.	do.									1.60	.40	.30																					2.60		
Howard.	Missouri.									.25	.02	.00																					0.47		
Howell.	James.									1.00	T.	T.																					1.98		
Huron.	do.																																		
Ipswich.	White.									.28	.02																						0.48		
Kadoka.	Missouri.									.18	.12																						0.28		
Kennebec.	do.																																	0.17	
Kimball.	do.																																	3.71	
La Delle.	James.									1.65	.15	.05																				2.22			
Lead.	Cheyenne.									.95	.33	.25	.02	T.																	2.01				
Marion.	Missouri.									.19		.10	T.	T.	1.50																0.39				
Marston.	do.																																0.88		
Meadow.	Grand.									.50	.38		T.		.06	T.															1.11				
Mellette.	James.									.62	.05	.02																				2.19			
Menn.	do.																																	0.52	
Milbank	Minnesota.																																	1.63	
Mitchell	James.									.30	.02																						1.40		
Mobridge.	Missouri.									1.08	.08																								
Oelrichs.	Cheyenne.																																	0.64	
Onaka.	Missouri.					</td																													

TABLE 2.—*Daily precipitation for October, 1913. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for October, 1913. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for October, 1913. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for October, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Missouri—Contd.																																		
Arthur	Osage	.67																																3.27
Avalon	Grand	1.20	.20																														5.25	
Bethany	do																																	
Bolivar	Osage	1.25	.05																														4.32	
Boonville	Missouri																																3.02	
Brunswick	Grand	.10	.40																														2.76	
Clinton	Osage	.75																															5.13	
Columbia	Missouri	.05																															2.40	
Conception	do	.34	.25	.39	.03	.13																										2.36		
Crocker	Gasconade	T.	T.	T.	.06	.42																										4.73		
Duncan	Osage	.13																														4.22		
Eldon	do	T.	T.																													3.57		
Fayette	Missouri	.23	.03																													2.54		
Fulton	do																															2.01		
Glasgow	do	.32																														3.24		
Grant City	Grand	.37	.35	T.	.25	.62	.42																								4.28			
Harrisonville	Osage	.80																														4.10		
Hazelhurst	Grand	1.11	T.																													5.60		
Hermann	Missouri	.20																														6.22		
Houston	Gasconade																															7.06		
Jefferson City	Missouri	.03																														2.59		
Kansas City	do	1.21																														5.64		
Kidder	Grand	.88	.47																													6.03		
Lamonte	Missouri	.50																														3.47		
Lebanon	Osage																															4.66		
Lexington	Missouri	.03	.88																													4.73		
L'berry	do	1.21	.10	.05	T.	2.25																									6.54			
Lockwood	Osage	.50	.25																													4.96		
Marshall	Missouri	.44																														3.21		
Maryville	do	.37	.37																													2.57		
Mount Vernon	Osage	.28																														3.47		
Nevada	do	.80																														3.99		
Oregon	Missouri	.27																														2.73		
Rolla	Gasconade	T.																														5.45		
St. Catherine	Grand	.85	.02																													2.88		
St. Charles	Missouri	.13	T.	.77																												4.52		
St. Joseph	do	.93	.09	1.09	.40	.06																									4.23			
St. Louis (1)	Mississippi	.11	.13	.10																												4.08		
St. Louis (2)	do	.12	.32	.40																												5.02		
Sublett	Chariton	.50																														4.45		
Tarkio	Missouri	1.56																														2.92		
Trenton	Grand	.69	.02	.02																												5.60		
Unionville	Chariton	.96																														6.16		
Warrensburg	Missouri	.88																														4.00		
Warrenton	do	.10																														4.63		
Warsaw	Osage	.16	.06																													3.75		
Wheatland	do	.18																														3.55		

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1913. District No. 6, Missouri Valley.

Date.	Wyoming.												Montana.															
	Basin.		Cheyenne.		Fort Laramie.		Lander.		Newcastle.		Pathfinder.		Sheridan.		Yellowstone Park.		Billings.		Dillon.		Havre.		Helena.		Lewis-town.		Malta.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	88	32	61	45	75	43	67	35	74	42	62	44	72	35	68	51	77	35	74	31	75	39	73	40	72	34	82	34
2....	86	28	72	42	83	33	76	35	78	44	70	41	79	33	67	36	84	40	71	30	83	51	79	44	83	35	84	35
3....	84	30	70	46	76	43	70	46	75	45	69	51	58	38	54	36	88	44	68	32	55	37	60	39	52	36	81	37
4....	80	32	63	39	65	43	55	38	60	50	56	41	48	39	50	30	81	37	52	32	41	37	42	31	37	35	54	36
5....	76	28	47	30	50	39	44	25	50	30	49	36	39	33	32	24	83	32	54	29	38	32	33	28	39	32	46	33
6....	74	26	42	26	53	35	45	21	34	28	41	27	49	27	35	19	45	22	60	29	38	28	43	22	37	30	39	30
7....	72	28	54	29	63	29	56	27	40	30	49	31	57	28	38	28	44	23	62	30	37	24	55	30	37	22	38	20
8....	74	28	58	36	67	39	57	28	50	34	57	41	44	38	42	29	43	34	59	30	49	30	42	29	50	29	41	24
9....	70	24	60	33	64	30	49	29	54	38	53	39	44	33	36	23	39	32	65	27	41	27	44	32	37	27	41	30
10....	74	30	40	30	50	29	48	21	58	35	44	26	45	32	34	19	51	30	68	30	48	28	43	33	46	27	46	33
11....	76	28	59	37	70	29	59	28	62	36	57	34	68	36	43	32	68	37	69	29	65	35	60	36	62	31	64	29
12....	72	29	68	44	80	39	68	31	71	35	64	41	75	40	57	32	77	42	76	32	74	47	71	39	71	45	78	40
13....	71	26	71	44	83	44	73	40	76	40	66	46	78	41	57	33	78	40	63	31	74	39	66	40	72	43	76	37
14....	70	26	58	28	60	39	56	36	60	38	61	37	50	28	40	25	51	36	62	32	48	29	45	32	45	28	64	32
15....	72	30	44	28	60	37	49	27	38	32	49	34	50	28	43	18	55	21	65	32	51	23	45	24	52	18	54	17
16....	75	26	51	24	59	18	51	23	51	30	49	29	49	23	41	21	54	27	60	29	47	26	44	33	45	20	46	27
17....	70	24	38	29	50	33	47	22	46	30	49	30	50	22	43	14	55	19	66	28	50	25	43	24	51	11	48	17
18....	71	28	38	26	47	26	43	29	40	30	41	28	41	25	36	27	46	34	65	32	48	25	47	38	54	18	50	28
19....	74	28	42	22	45	29	48	29	38	25	40	27	42	23	46	20	56	23	68	31	47	20	54	35	54	21	48	16
20....	71	27	57	41	65	31	67	26	50	26	59	38	65	35	56	27	72	31	64	29	67	34	63	46	55	27	54	22
21....	72	30	53	34	59	27	57	34	50	32	55	35	56	37	48	31	58	40	68	32	53	31	56	45	50	29	54	16
22....	74	30	50	32	56	35	59	24	48	30	53	34	56	34	53	25	65	32	68	34	64	22	59	43	64	21	54	21
23....	70	24	62	39	70	30	70	28	62	36	69	33	57	30	76	42	62	33	68	30	50	57	61	24	63	24	53	22
24....	70	20	66	42	73	30	72	32	68	38	64	37	68	39	57	33	65	47	60	30	58	38	57	34	66	36	53	37
25....	70	22	50	15	36	33	58	9	50	29	56	22	39	11	34	14	43	28	58	29	43	21	38	25	52	22	52	25
Mns..	73.1	26.2	52.2	30.8	59.7	29.9	54.5	26.3	52.4	32.0	51.6	32.7	52.2	28.9	45.8	25.5	54.9	31.7	63.4	30.3	52.1	29.5	50.4	33.1	50.2	26.5	53.9	25.8

Date.	Montana.				North Dakota.						South Dakota.													
	Miles City.		Poplar.		Berthold Agency.	Bismarck.	Dickinson.	James-town.	Williston.	Aberdeen.	Ellingson.	Huron.	Kadoka.	Kimball.	Pierre.	Rapid City.								
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.						
1....	74	43	91	38	73	37	73	43	74	47	72	41	76	53	72	39	75	49	76	46	77	53	72	49
2....	83	45	89	38	84	37	84	37	78	36	82	48	85	36	81	38	84	39	83	46	85	43	83	45
3....	65	47	68	43	70	41	71	44	62	43	74	38	58	41	53	40	66	54	82	52	83	52	71	50
4....	43	41	47	37	56	42	53	40	52	40	50	45	52	41	48	42	59	51	71	63	62	44	50	37
5....	43	38	43	37	49	38	46	42	42	37	45	42	45	39	48	42	57	50	44	40	63	43	50	40
6....	47	35	41	36	57	31	51	33	48	38	47	38	43	35	52	44	49	31	54	38	55	39	50	32
7....	48	30	49	25	58	24	59	30	56	25	58	32	49	28	58	25	57	32	63	31	70	32	63	35
8....	46	37	48	28	49	31	51	33	48	31	56	32	46	32	54	32	48	31	67	35	71	39	63	39
9....	40	34	40	30	52	31	60	30	50	30	55	31	53	31	59	32	63	36	60	36	65	37	63	36
10....	47	34	41	29	46	32	46	35	44	30	43	30	43	31	57	36	44	33	55	33	64	37	50	49
11....	66	38	55	29	55	27	58	31	55	26	54	31	46	32	58	32	60	28	64	33	62	27	64	30
12....	80	36	82	29	73	22	75	28	72	35	65	28	72	30	75	25	74	40	77	41	80	47	76	43
13....	75	45	77	38	80	35	82	42	79	35	75	27	76	41	81	40	78	44	84	47	81	51	86	47
14....	66	45	64	45	68	39	66	33	60	35	57	41	51	32	63	42	55	33	64	41	67	42	78	48
15....	54	30	65	43	56	15	52	24	55	16	49	26	55	23	52	27	52	22	53	36	50	34	58	36
16....	54	34	56	36	55	34	53	39	55	33	50	26	53	33	55	34	53	34	54	32	56	36	54	36
17....	54	25	52	26	53	17	54	27	47	17	52	30	52	26	52	29	51	25	53	27	54	31	48	34
18....	47	36	48	31	47	22	50	28	45	24	50	26	44	31	52	21	46	28	56	24	53	27	46	31
19....	43	24	45	22	39	19	39	26	38	28	30	23	38	19	34	22	39	23	42	21	50	24	42	37
20....	48	35	43	25	37	14	31																	

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1913. District No. 6—Continued.

Date.	South Dakota.					Colorado.					Nebraska.																	
	Sioux Falls, §§		Water-town, §§		Yankton.	Denver.		Wray.		Alma.		Bridge-port.		Grand Island, §§		Hay Springs.		Hebron.		Lincoln.		North Platte.		Oakdale.		Omaha.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	75	47	72	43	77	51	65	49	75	52	77	47	78	43	88	52	72	42	72	50	78	52	77	49	75	48	78	56
2.	82	42	78	33	83	46	77	44	81	41	80	45	85	33	84	46	80	40	83	47	82	51	81	42	80	42	82	52
3.	87	45	88	33	86	63	74	47	85	46	85	55	88	33	84	58	78	45	84	61	84	61	86	49	83	59	84	60
4.	65	55	59	51	73	54	74	48	74	46	80	65	80	38	80	70	60	40	75	64	74	69	47	78	50	69	65	65
5.	55	45	50	43	59	47	59	41	65	35	70	43	50	39	62	50	44	35	72	50	50	57	44	60	46	67	52	52
6.	54	45	51	43	58	43	50	34	58	41	69	46	55	35	60	48	54	37	74	57	78	51	60	34	58	37	80	52
7.	65	36	64	30	71	37	69	34	68	29	70	42	67	20	71	36	65	26	70	41	77	44	68	34	76	35	76	52
8.	77	42	71	31	76	47	70	40	75	42	70	40	72	29	74	47	68	32	77	42	77	44	76	38	72	39	76	52
9.	80	44	71	36	77	45	68	37	82	33	80	38	65	32	76	48	65	32	75	54	78	60	77	40	78	44	79	62
10.	50	42	44	32	59	38	48	33	70	35	50	42	47	27	45	42	56	32	61	47	70	43	56	31	52	35	69	45
11.	60	30	58	30	65	34	68	36	81	27	70	28	-----	-----	69	31	65	21	70	35	60	36	70	25	66	29	69	40
12.	75	33	74	30	79	45	73	41	79	34	81	35	85	32	81	43	78	36	80	42	82	54	79	38	82	36	78	45
13.	82	38	80	43	82	55	77	47	88	39	85	48	-----	-----	82	51	83	43	84	50	82	54	89	42	80	53	81	54
14.	72	53	63	46	69	47	71	39	68	41	80	50	-----	-----	74	62	73	40	80	56	79	57	67	45	77	57	77	57
15.	67	38	54	28	52	34	36	53	34	50	44	-----	-----	52	42	63	33	56	45	57	44	48	39	54	35	58	44	
16.	55	33	51	29	51	35	53	29	51	28	57	40	61	20	52	38	50	28	48	41	49	43	55	34	52	33	47	44
17.	56	28	55	23	56	29	43	34	60	25	55	26	47	32	55	30	50	27	54	34	53	34	53	23	54	26	53	35
18.	54	27	54	22	55	30	47	28	58	22	47	36	52	20	56	33	48	19	58	35	56	37	53	24	55	27	56	41
19.	32	26	30	22	39	22	41	24	47	22	40	24	45	19	40	32	36	22	43	33	44	27	40	25	40	25	43	27
20.	30	18	28	15	34	18	63	31	61	28	43	20	-----	-----	45	22	53	22	47	23	44	23	51	26	37	21	39	22
Mns.	56.7*	32.4	53.8	27.6	59.5	34.8	59.1	33.8	65.5	31.6	62.7	34.5	60.3	26.7*	61.5	38.4	59.0	29.5	62.5	38.5	62.5	39.3	61.8	32.0	58.7	31.0	61.2	40.6
Date.	Valentine, Nebr.		Iowa.					Kansas.					Missouri.															
			Clarinda, §§	Sibley, §§	Sioux City.	Colby.	Concordia.	Salina.	Topeka.	Wakeeney.	Columbia.	Kansas City.	St. Louis.	Unionville, §§	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	74	44	78	45	75	42	75	50	70	55	80	51	74	48	79	51	78	55	76	53	79	55	76	58	80	50		
2.	81	40	81	45	78	41	77	48	79	47	85	53	80	52	84	56	80	53	79	52	82	60	77	60	81	54		
3.	86	56	84	45	88	46	84	56	84	55	82	61	80	54	83	59	83	50	84	63	79	56	86	50	86	50		
4.	57	43	70	51	70	60	68	57	76	57	81	66	78	54	71	64	81	63	71	64	78	57	80	55	80	55		
5.	47	40	79	58	61	47	64	49	70	43	81	58	82	65	82	67	77	50	82	64	77	62	86	64	86	64		
6.	55	34	83	59	73	48	68	43	60	45	76	51	80	65	83	59	68	44	85	64	85	65	82	65	84	66		
7.	69	29	78	51	75	33	69	41	66	32	73	46	69	51	83	55	69	41	77	62	68	58	75	68	80	56		
8.	67	39	79	57	75	42	73	49	68	32	80	47	74	51	80	58	76	47	79	59	81	57	75	66	84	50		
9.	69	35	80	50	77	47	76	54	81	43	73	57	82	50	79	60	84	49	82	63	78	63	87	56	87	56		
10.	52	32	70	59	52	51	68	40	73	31	70	43	62	51	74	47	73	44	78	52	73	51	80	61	80	62		
11.	65	27	67	34	62	30	65	36	69	30	73	37	65	35	68	42	74	32	66	42	68	45	64	49	72	40		
12.	78	37	80	34	74	34	78	46	78	39	84	46	81	46	79	52	82	46	77	51	76	53	76	52	90	38		
13.	83	48	79	54	82	48	82	53	85	46	83	57	81	54	82	58	83	53	79	56	78	57	84	56				
14.	64	43	80	49	76	56	72	50	77	62	82	52	87	57	82	50	80	49	78	59	80	60	76	57	80	52		
15.	50	38	61	44	56	32	58	38	63	45	62	46	70	54	63	48	68	45	70	55	65	54	77	60	74	50		
16.	52	32	45	41	49	38	51	38	53	35	47	42	60	41	48	44	53	40	65	49	55	44	74	58	50	43		
17.	48	26	53	41	54	29	55	30	56	32	53	38	56	41	50	43	56	33	49	47	50	43	63	40				
18.	51	22	54	32	57	25	56	35	55	34	58	38	60	32	57	33	55	34	58	38	56	43	54	44	63	34		
19.	36	22	44	34	34	26	42	23	57	26	44	33	49	33	47	30	43	30	49	34	48	34	53	41	46	33		
20.	39	18	41	23	32	16	33	19	57	27	48	25	46	28	45	38	56	27	43	31	44	27	41	33	44	26		
21.	58	25	39	19	30	4	32	14	59	24	49	30	46	32	46	32	55	28	43	29	45	31	44	30	50	20		
22.	51	28	50	18	22	17	51	21	59	36	59	34	53	32	50	36	60	36	43	38	43	35	48	37	48	24		
23.	73	37	52	22	63	68	29	70	36	67	31	52	29	60	33	72	34	53	31	57	36	50	36	58	26			
24.	70	40	72	25	63	39	68	40	76	37	75	42	73	40	67	42	77	44	66	31	68	41	61	43	74	30		
25.	53	28	70	42	66	40	65	38	65	39	77	44	75	41	72	44	67	44	69	36	70	47	66	48	71	36		
26.	46	17	46	35	43	25	44	27	46	24	48	26	62	35	44	32	46	28	56	33	47	33	60	37	45	34		
27.	59	25	52	22	49	17	48																					